

Philip Johnson poised to make his mark on London

ST MARTINS Property Corporation has confirmed that the doyen of American architecture, Philip Johnson, has been appointed with his partner, John Burgee, as the architect for phase two of London Bridge City on the south bank of the Thames.

The Kuwaiti-owned St Martins is remaining tight-lipped about what sort of scheme Johnson and Burgee have in mind for the 149,000sq m still to be developed in phase 2.

A spokesman for the company said the community as-

pects of the scheme, which in outline amount to 1,900sq m of recreational and leisure buildings and 15,500sq m of open space, will remain the same.

It is likely that the commercial elements, granted in outline under a special development order in 1983, will be substantially revised. These include 117,000sq m of offices, 5,500sq m of retail and 3,200sq m of hi-tech/light industrial space.

A further 22,000sq m of

residential was planned. The outline consent also set the height of any scheme at 57m.

Other guidelines set out in the outline consent provided that there should be a riverside walkway from Hays Dock to Tower Bridge and that an east west axis should be created through the middle of the site, reinforced in form by the buildings around it. Existing north/south routes between the river and Tooley Street should be retained.

A public park was intended for the eastern end of the site next to Tower Bridge.

Other architects competing with Johnson and Burgee, it is rumoured, included two more American firms and two English firms. Their names are not being revealed, but the two UK practices could be Michael Twigg Brown & Partners and

John S Bonnington.

The latter designed No 1 London Bridge in phase one, while the former designed both the Cottons building and Hays Galleria.

Johnson, now 80, is America's most famous architect. His best known building, the AT&T headquarters in Manhattan, features as its crowning glory a classical, outsize, broken pediment.



Philip Johnson — America's most famous architect.

Penzance project gets green light

PLANS for a £21 million development of Penzance Harbour and surrounding area have been given the go-ahead by Penwith District Council.

And once a final report on the area has been published by consultant architects Graham Moss Associates and marine planners Wallace Evans & Partners, the council will be shortlisting developers and architects for the scheme.

Funding for the proposed marine village and major leisure and retail centre will be from the public and private sectors.

Penwith council will be con-

tributing £1 million, £12 million coming from the private sector, £4 million from the BBC's European Development Fund, £1 million from the council, and £1 million from the private sector. The scheme is a major opportunity for development within the area, more than 300 jobs will be created in the district.

The closure of the mine earlier this year has led to unemployment figures in the area up to 24 per cent, twice the national average.

Seifert backs clerk

TOP commercial architect Richard Seifert is predicting another Ronan Point-type disaster if fast-track building methods are not supervised properly.

Speaking at the annual dinner of the London chapter of the Institute of Clerks of Works this week, Seifert said projects which are given with strict deadlines and completion dates could be the Ronan Points of the 1990s.

unless greater vigilance is exercised.

Recent tests on the Ronan Point site have found evidence of design and bad work with joints packed with mortar and tin cans.

A good clerk of works have prevented the workmanship by inspection.

BUILDING DESIGN

No 811

The weekly newspaper for the design team

FRIDAY NOVEMBER 7 1986

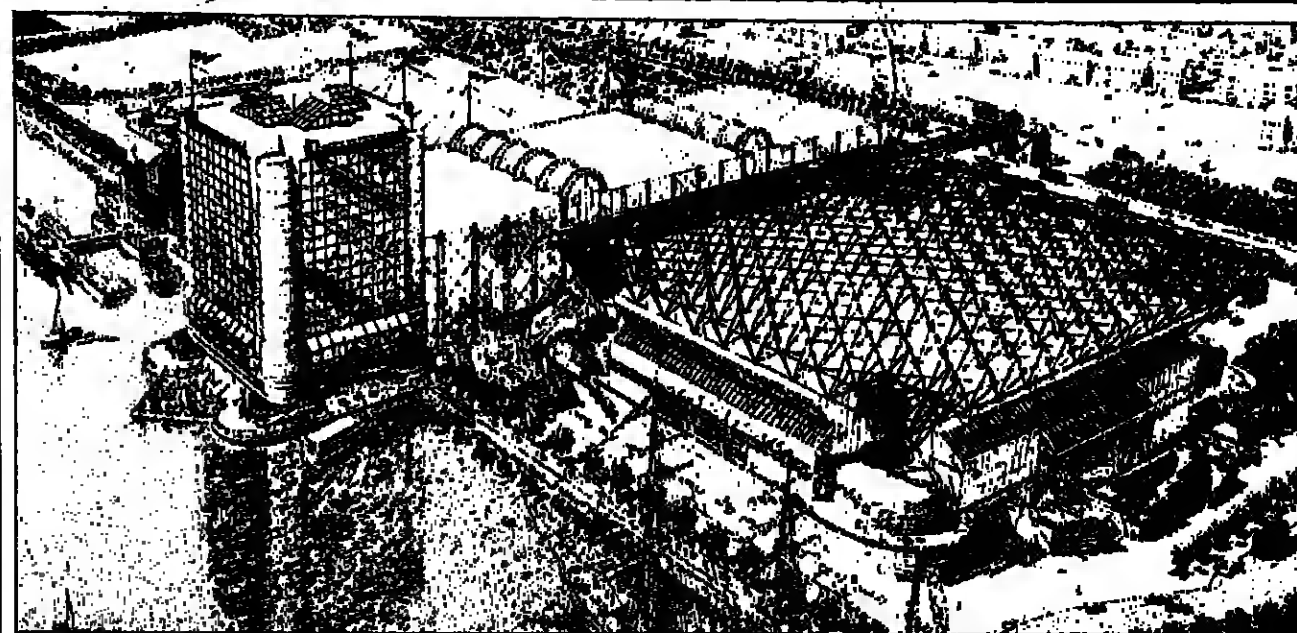
Conran's museum approval

DETAILED planning consent has been granted for the Conran Foundation's new design museum fronting the Thames next to Tower Bridge.

The 3,000sq m museum will form the cultural centrepiece of the 4.8ha Butler's Wharf regeneration project which Conran, Roche and Sir Terence Conran are masterminding.

The building will be the new home for what was the Boilerhouse Project at the Victoria & Albert Museum, where the foundation's lease has run out.

It will house a permanent design exhibition and offer space for temporary thematic shows. Study facilities and



American architects HOK have designed this sports scheme for London's Docklands. See story below.

Docklands targets for big US practices

AMERICAN FIRMS' DESIGN INVASION

AN invasion of American architects is hitting the British market with four big London projects being designed by US practices and more promised.

Chicago-based Skidmore Owings & Merrill, who are working on Canary Wharf and the Bishopsgate frontage to the Broadgate scheme, have set up a London office and are recruiting British architects.

There are fewer than 10 staff and they are all American, but they hope to expand to around 25, with a British majority, by Christmas.

SOM have only three overseas offices — the others are in Jeddah and Manila — and Roger Coleman, who is in charge in London, said they hope it will become a centre for their European operations.

Most of the office's work is on

architectural practices. New York's Kohn Pedersen Fox have recently been commissioned to design one of the towers at Canary Wharf.

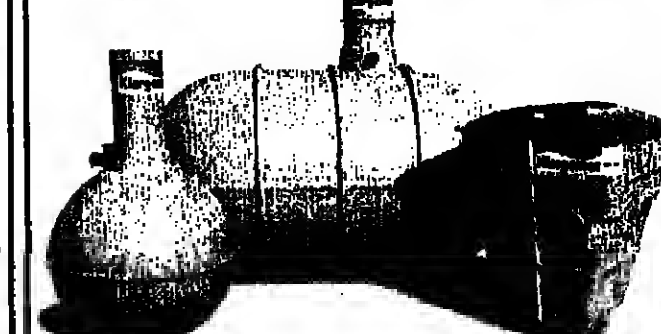
Clark Tribble Harris & Li are also seeking British money, but on the Unlisted Securities Market.

Beeb awards

THE BBC is to launch a new design award scheme, including a category for architects. The awards are intended to involve the public, and will be launched on BBC2 on Wednesday, November 26.

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Application form and further details available from Establishment Officer, Lee Valley Regional Park Authority, Myddleton House, Sully Cross, Enfield, Middlesex EN2 8HG. Closing date: 17th November 1986.

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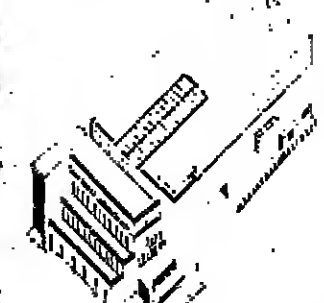
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Election criticism

RIBA president Larry Rolland has repeated his condemnation of "domestic squabbling" over the battle for his successor.

He was addressing more than 500 members at the annual dinner of the West Midlands region in Birmingham on Tuesday night.

Rolland said: "I guess the world looks to the RIBA for four or five months every two years to provide this richly comic entertainment. Issues are trivialised and distorted beyond recognition. Wild and damaging claims are being made that I deplore."

Andrews attacks Hackney —

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Hospital treatment



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Getting to grips with garden festivals

LANDSCAPE architect Brian Clouston, sees British garden festivals as exhibitions with little permanent value to the community. This was revealed at the Urban Design Group's evening talk and discussion last week, writes Philip Cave.

Jo Samworth, design coordinator for the Stoke-on-Trent Garden Festival, sees them as rejuvenators, at least as far as Stoke is concerned.

Clouston favours the German model of reclaiming derelict land and leaving a substantial part as park with a small proportion for redevelopment. He sees little problem with the management of large areas of parkland in our cities if maintenance regimes are changed to manage more natural landscapes.

With the British model of creating "exhibitions" with an after-use of predominantly industry or housing, the infrastructure costs of roads and services are very high, in fact five or six times more costly than reclaiming for amenity after-use.

Samworth confirmed this with Stoke where it was recently revealed that a large part of the site may be retained as a park. The result was that a costly infrastructure of roads and services, already put in and buried, may never be uncovered on part of the site.

If the formal gardens and lake at Stoke do remain as a public park, the percentage of permanent facilities created looks promising: 4.5m of permanent park including marina, 18 houses and the pub; 20ha of woodland ridge. This would leave only 12ha for redevelopment.

Liverpool was left with no after-use when the city council withdrew its agreement to manage it as a park. Part was then turned into a theme park, but the operators have now gone into liquidation, leaving its future in question. It seems incredible that so little forward planning has gone into our festivals.

Canary Wharf offshoot to get Ridley scrutiny

PLANNING permission was granted this week for part of Canary Wharf outside the enterprise zone in London's Docklands — pending approval from the environment secretary.

The London Docklands Development Corporation recommended approval of the Westferry Circus development which comprises 127,000sq m of offices, 6,700sq m of commercial space, a 48,050sq m hotel and major traffic interchange to serve the massive 1

development. Corporation recommended approval of the Westferry Circus development which comprises 127,000sq m of offices, 6,700sq m of commercial space, a 48,050sq m hotel and major traffic interchange to serve the massive 1

By Alan Thompson

million sq m banking and commercial centre proposed for the Isle of Dogs.

The LDDC will now refer the application, which is part outline and part detailed, to the environment secretary as the scheme is a major departure from the Tower Hamlets borough plan.

It is not called in for a public

inquiry, the scheme will go ahead.

But local pressure group Docklands Forum will be asking the DoE to call in the scheme. A spokesman for the group said: "We are writing to Nicholas Ridley and our MPs will be raising the issue in the Houses of Parliament."

Main objections are the size and scale of the proposed development, traffic implications for the area and the fact that the LDDC has pushed the application through without a public inquiry.

English Heritage has joined the objectors and expressed concern at the scale of the proposal, planned demolition of listed buildings, and the implications for the rest of the Isle of

Dogs.

Tower Hamlets is known to have reservations about the plan but has not come out strongly against it for fear of losing the Canary Wharf development and the massive income it would generate.

Other boroughs sharing boundaries with Tower Hamlets have asked to be consulted and Southwark has urged Ridley to call the application in.

Duo debate

TICKETS are still available for the Welsh presidential debate between Raymond Andrews and Rod Hukney on November 13 in Cardiff.

Further information from Don Snow, 0222-561124.

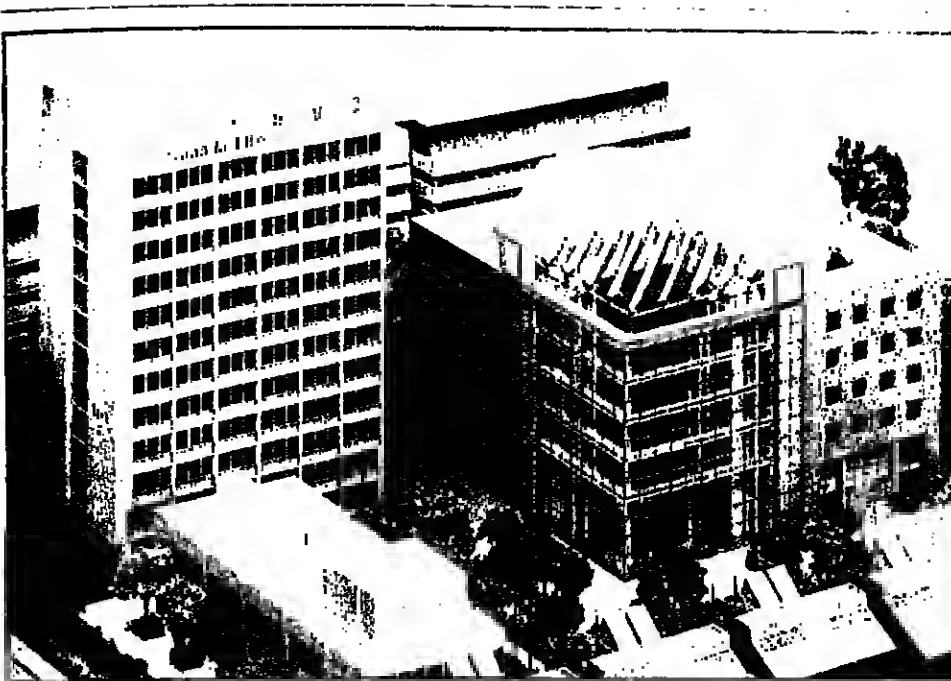
Civic Trust picks new director

THE Civic Trust has appointed Martin Bradshaw as its new director, replacing the late 1970s.

Bradshaw, who was town planner in the West Yorkshire and the Yorkshire Development Corporation, became director of the late 1970s.

He succeeds Martin Bradshaw, who has worked for the trust since 1970, previously working as a planning officer on the Isle of Dogs.

Bradshaw was a selection panel of MEPC and London Development Corporation. Christopher Brown, chairman of the trust, said: "We are delighted to welcome Martin to the trust."



Design for insurance at Potters Bar

Rock Townsend designed this 9,290sq m, five-storey office complex for the Cnnadn Life Assurance Company's new headquarters at Potters Bar.

The concrete-framed, granite-clad building is L-shaped with a glazed atrium hung from a steel skeleton, created by the architects. Completion is expected within 83 weeks, by May 1988.

CAG demands incentives for inner city home development

THE RIBA's Community Architecture Group has urged the Government to offer cash incentives for housebuilders to develop inner cities sites.

CAG will attempt to prove that substantial long-term savings can be made by employing community architects on large-scale inner city schemes.

It has cited maintenance, policing and social services as examples of where large savings can be made. The money would

then be offered to housebuilders in the form of a grant.

To prove its point CAG has launched its own study into the cost-effectiveness of community architecture.

The RIBA sponsored study will be funded from a £10,000 increase in CAG's budget, which it expects to be confirmed at the November council meeting.

CAG spokesman Ian Finlay admitted community architecture was more expensive in professional time, but said the long-term benefits, including a happier local community, should be considered.

A separate study into the group's current fee scale is also being carried out.

CAG says that because community architecture is more

By Amanda Bailille

demanding on the architect's time, fees should be adjusted accordingly.

Finlay said community architects are foregoing their own fees to support clients, and many are finding it hard "to make ends meet".

Meanwhile the group has attacked comments made last week by RIBA public affairs director David Atwell, following Prince Charles' speech to the housebuilders.

Atwell said that the Prince was not fully informed of the situation which made developing green-field sites problematic.

"There is a major role for architects to work with local communities which the RIBA failed to support. It also failed to stress that the RIBA membership can play a major role in these areas if funding is unlocked," he said.

Surveyors in regional policy call

THE "plethora" of regional aid schemes in England has been criticised by the Royal Institution of Chartered Surveyors.

In a report, *Regional Policy: A Fresh Approach*, it has called on the Government to streamline the system by creating a single structure for each region on the same lines as the Scottish and Welsh development agencies.

It suggests that eight English regional agencies should be formed with a Cabinet minister responsible overall and junior ministers for each region.

Landmark changes

APPLICATIONS for a change of use for County Hall have been submitted to Lambeth council.

The new owner of the building — the London Residential Body (LRB) — has been advised by estate agents Richard Ellis.

The applications seek permission for County Hall to be turned into an hotel, or offices "for any purpose".

Lambeth said the applications will be dealt with in the normal way. It has eight weeks in which to make the decision.

Lutyens House permission

PROPOSALS for refurbishment and internal reconstruction of Lutyens House have been given planning permission and listed building consent by the City of London, subject to approval by English Heritage.

The plans by William Nimmo & Partners for Greycoat include the repositioning of the boardroom in the basement of the Grade II listed building allowing more office space.

Shop talk

THE refurbishment of shopping centres is the subject of "New Shops for Old", a one-day conference at the RIBA on November 26. Details 01-580 5533 (ext 4334).

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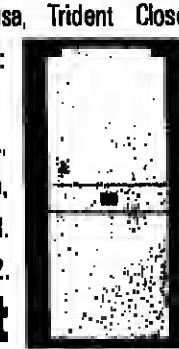
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Twelve Glasgow blocks fail to meet blast standards

TWELVE out of 44 system-built tower blocks in Glasgow need strengthening to bring them up to the Government's minimum pressure loading standard of 17kN per sq m.

And three 25-storey Reema blocks in Royston have been labelled as a major fire risk by tenants because of gaps between floors and walls and the presence of polyurethane foam in new metal cladding around the building.

Two 13-storey Reema blocks in Cambuslang still have piped gas in them and tenants fear they will not withstand a 34kN per sq m blast.

Glasgow's high-rise housing stock of 44 towers was checked by local engineering consultants W A Fairhurst & Partners following the Ronan Point disaster in 1968. All were passed as safe.

Fairhurst's based many of their conclusions on detailed drawings which showed how the structure should have been built.

But recent tests have found that the actual work in joints on

the building "does not necessarily correspond" with that shown in the detailed drawings. Secret reports given to the council by Fairhurst's on February 17, 1969 revealed serious

By BD Reporter

misgivings about the long-term ability of many Glasgow blocks to withstand wind loadings.

Fairhurst's gave warnings about four estates:

● Maryhill B — evidence was found of overstressing on wind loading of 49 per cent above normal permissible stresses;

● Royston B — overstressing of 67 per cent above normal permissible stresses for dead and live loads;

● Springburn A & B — severe cracks in walls on a scale that could alarm occupants could occur in high winds.

Fairhurst's were unable to recommend any method of strengthening.

Glasgow City Council has been involved in tests on its high-

rise stock for the last two years following DoE and Scottish Office directives that local authorities should check system-built blocks.

A spokesman told BD the council was planning to strengthen all blocks below 17kN per sq m. Work is due to start in January next year and the first phase for the blocks should be complete in March, with phase II for the remaining five blocks following soon afterwards.

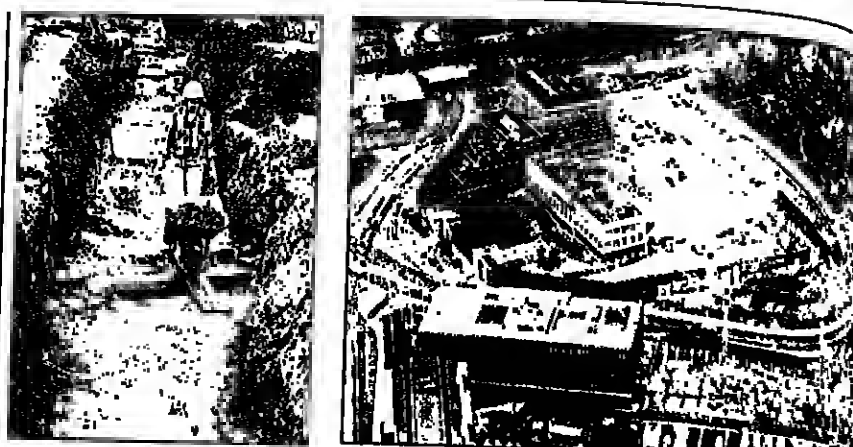
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The Royal Mint with the hole

With the first phase of excavation work at the Royal Mint in progress, architects RMJM are working on the final details of the listed Seamen's Registry, on the north side of the Royal Mint courtyard.

The current scheme turns the registry, designed by James Johnson as dwellings for officers of the Mint, into speculative offices.

The interior of the building will be gutted, says RMJM, with only the northern and eastern walls retained.

The registry, along with other listed structures on the site, including the original walls, two entrance lodges and cast-iron lamp standards, all need listed building consent from English Heritage before demolition can take place.

Full planning permission has been given by the council.

Sheppard Robson, responsible for the building, behind the Johnson Smith building, have been asked to incorporate parts of a 14th century abbey, uncovered during the recent excavations.

The Museum of London, which is carrying out the excavation, says the abbey remains are of "high quality". Sixteenth century brick found in the site, including the original walls, two entrance lodges and cast-iron lamp standards, all need listed building consent from English Heritage before demolition can take place.

'Deprivation' sparks conference on estates

A CONFERENCE aimed at focusing attention on the problems of outer housing estates, as opposed to inner-city estates, will take place on Thursday, November 27 in London.

Glasgow, Hull, Knowsley and Middlesbrough councils are organising the conference. Speakers include MPs Michael Heseltine and Jeff Rooker.

Studies by the urban research company CES for the four councils showed that their outer estates have suffered disproportionately from the decline of manufacturing and construction industries, and have not fully benefited from Government urban programmes or special employment measures.

"State dependent, isolated communities with no infrastructure, environment or services", is how Middlesbrough councillor Bob Brady, chairman of the four council steering groups, describes outer estates.

They receive "little in the way of government financial support, and suffer more deprivation than the already identified and funded inner-city areas", argues Brady.

The aim of the conference is to improve conditions on these estates and to try to secure more government aid.

Roche joins RIBA battle

RAYMOND Andrews' presidential running mate Fred Roche has joined the electioneering campaign and outlined the RIBA's plans to reorganise the Institute.

He confirmed that the companies would be moving out of Portland Place within 12 months and that a new post of a second deputy secretary would be created to replace the post of director of public affairs following David Atwell's departure.

Roche recently came out in favour of Andrews arguing that

he, as the council's nomination to take over from Larry Rolland next summer, was the man to continue policies laid down by council since 1982.

Hackney has already said that major changes are on the way if he gets elected. He is particularly

By Alan Thompson

keen on reversing plans to bring the Drawings Collection back to Portland Place, the reinstatement of John Harris at the RIBA, a new marketing plan for

architecture and new roles for the RIBA secretariat.

Roche admitted that some reorganisation was necessary for the institute if it was to remain effective over the coming decade but that this was not a radical plan.

Hackney is considered to be more extreme than Andrews and has promised radical changes which is what some pundits claim the RIBA needs.

Roche, the chairman of the RIBA's Public Affairs Committee, outlined achievements so far:

● Plans to move the commercial companies out of Portland Place are well advanced. The building should be vacated within 12 months.

● The executive is being strengthened by the creation of a new post of deputy secretary to complement the appointment of Brooks in 1984.

● Plans to change Portland Place into an architecture centre are being implemented.

● Additional resources have been provided for the regions and there are plans to increase

devolution of RIBA responsibilities to the regions.

● A review of the educational curriculum is now underway and a policy for continued professional development is being implemented.

● The RIBA has created its own professional indemnity insurance company with the income being ploughed back into education.

Roche also predicted that the Drawings Collection will return to Portland Place if the British Architectural Library Trust can raise the necessary finance.

Appeal to 'shame' Opera plan

COVENT Garden Community Association has launched a "selective appeal" to "shame" the Royal Opera House into a change of heart over its £90 million proposals, designed by Jeremy Dixon.

The association claims the £40 million office development planned by the ROH is not an "appropriate way" to raise funds for the building's improvement and extension.

On top of this the ROH will also be fund raising for a further £23 million, representing the gap between the money from the office development and the actual cost of the improvements.

CGCA's appeal is aimed at developers — particularly those who have been active in the area — institutions and the public. A national lottery, which is illegal in Britain, has also been suggested as a way of raising funds.

CGCA claims that the intention behind its appeal is to prove to the ROH that commercial development is unnecessary.

The association's John Toomey said: "The Opera House has had years to raise money for

these improvements and yet it's done nothing.

He said the Government gave the land — roughly 1 ha — to the ROH for cultural uses, not commercial development.

Toomey also said the proposals go against the Covent Garden Action Plan, a statutory document that restricts large-scale office development in the area.

The CGCA is also critical that no mention is made of a second auditorium, provision for the Royal Ballet School and housing accommodation for staff — all items, it says, which were originally deemed necessary. Demolition of listed buildings, including the Floral Hall, is also opposed.

A spokesman for the ROH said fundraising would begin only after planning consent has been given by Westminster council.

He said: "If we get planning permission and public support, on that platform we'll go to some very rich people." He indicated that homework on those people had already been carefully researched.



New on the brasserie scene is Caffè Maxima, a less formal neighbour to the upstairs Moxim's de Paris restaurant, in London's West End.

The original dark, opulent interior has been stripped out and replaced with a white, black, dusty red and patterned colour scheme.

Fitch, who were responsible for the three-month design rethink, has tried to blend old with new, retaining the original oil-painted murals and wall mirrors, while introducing a black steel canopy over the entrance and a modern "brasserie style" bar.

A modern lighting system by Lito, which bounces light off an internal mirror and onto the paintings, and a new lighting grid emphasises the space of the room, with capacity for 126 covers.

Multi black square tables, commissioned by Fitch, with matching chairs, and white chinos with a black logo, emphasise an essentially modern style.

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And was the hat maker happy? Well dare we say he took his hat off to us.

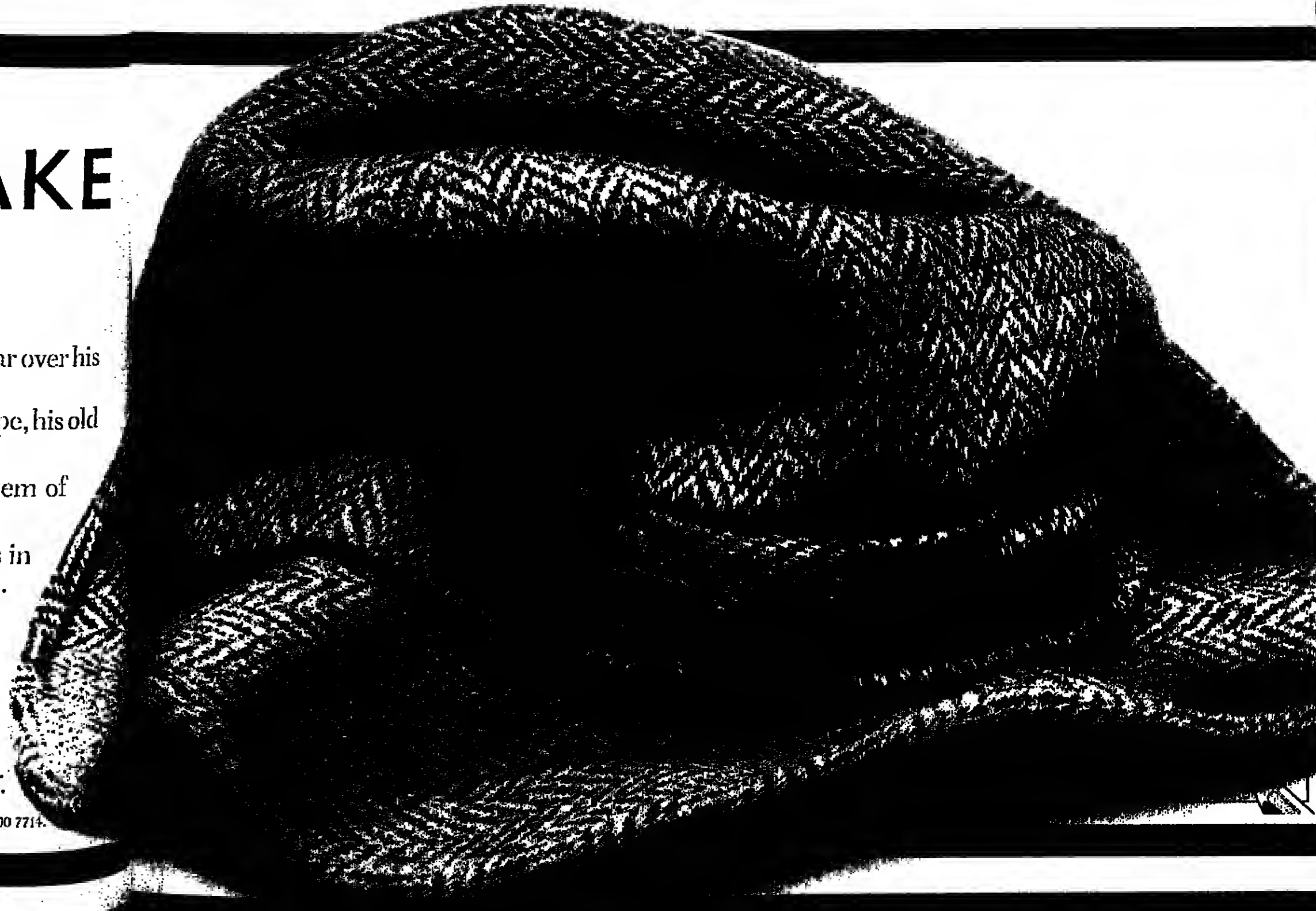
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Work has just started on this 700sq m two-storey retail scheme in Colebecker, designed for Burton Property Trust by Geoffrey Reid Associates, who were recently acquired by the McColl Wheatley Group. The clay roof tiles are handmade, while red and buff stock bricks with stone have been used to make sure the building blends in with the rest of Colebecker's conservation area.

New town profits

THE sale of property in new towns has put in more than £500 million for the Government.

The Commission for New Towns (CNT) says in its annual report that the remaining assets are worth £721 million — and this excludes the assets of Basildon Development Corporation, which were transferred to the CNT on April 1.

Total sales during the last financial year amounted to £93.7 million — almost £17 million over the target of £77 million — and a further £75 million's worth of sales have been agreed. In this financial year £20 million's worth have already been completed.

'Fact trip' council row

A ROW has broken out on Bracknell District Council after an architect competing to design a leisure pool organised a fact-finding trip to Germany for three councillors and four officers.

Some councillors were concerned that the trip was not authorised in advance by the finance committee, and one complained that the trip could be seen as an inducement.

But Peter Sargent of Sargent & Potinadis was unrepentant. He pointed out that ratepayers had paid for the councillors' trip and said his practice usually organised fact-finding visits for both commercial and local authority clients.

Traders to contest council go-ahead for market scheme

LEEDS City Council has given planning permission for the £90 million development of the city's Kirkgate market designed by Building Design Partnership.

But the Market Traders Association is to contest the decision in the High Court and is calling for a judicial review of the way the council reached its decision.

The council approved Dutch developer MAB's plans subject to more than 50 conditions including some design modifications.

But the traders have said they are totally dissatisfied with the manner in which planning applications had been processed.

Their solicitors claimed the proposed development constitutes a departure from the central business area development plan.

The council has warned that a judicial review of the proceedings could seriously delay the scheme.

MAB's scheme includes a

five-storey development with a new covered market hall adjoining the existing 1904 market, a new two-storey covered shopping mall with 143 units including

By Alan Thompson

two department stores and food court, multi-screen cinema, children's play area, covered bus station, parking for 2,000 cars and 1,450sq m of offices and ancillary development.

BDP's plans have gone through several revisions to accommodate public criticism of the

scheme since it was lodged with the council last summer.

Work is scheduled to start on site next year. The completion date is estimated to be 1992.

Also, Burnet & Lyall have been invited by Leeds councillors to apply for planning permission for their plans to turn the Grade I listed Corn Exchange building into a shopping centre.

The controversial scheme for developers Speciality Shops will turn the 1860 Cuthbert Brock building into a 2,000sq m retail centre adjoining Kirkgate market.

Cutting through red tape

THE East of England Branch of the Association of Conservation Officers is holding a one-day conference in Cambridge to look at ways of beating red tape that can ruin alterations and improvements to historic buildings.

"Is Parliament conspiring against the conservation

lobby?" asks the association.

For further details on the conference, to be held on Saturday, November 22 at St John's College, Cambridge, contact James Clifton, Wycombe district council (0494) 26100, or John Preston, Cambridgeshire County Council (223) 317616.

Newcastle seals deal on Elswick scheme

HOLDER & Mathies plan to redevelop 28ha of vacant land in Newcastle — a major retail, leisure and office complex looks like start on site next year after months of uncertainty.

The scheme's future has been in doubt since early last year when local construction company Brims pulled out of funding agreement.

Newcastle City Council decided to act as financial backstop for developer Dyson Partners, but it has only now scaled the deal.

Plans for the site on the site of the Tyne include a food superstore, garden centre and DIY store, along with 40,000sq m technology business centre and riverside village.

Separate negotiations under way to build a leisure centre together with 8,500-seat stadium, ice rink, football pitch.

Newcastle council is ecstatic about the development despite competition from own Eldon Square centre.

Senior councillors pointed out that dedicated grants of £1.8 million have already been spent on the workshops, looking at the kind which should have been official spin-offs for the city.

Infill

Building on our communities

THE conference success story would not have happened if the initiative had remained within the RIBA. The Community Architecture Group had already determined that the event should take place elsewhere in order to underline the multi-disciplinary approach essential to much work in the field and so as not to antagonise key organisations known to be suspicious of the motives of a professional body.

The departure of the main conference to the Astoria Theatre under the glare of television lights provides CAG with an opportunity to reaffirm its position as a serious forum for discussion. On Saturday November 29, the group is hosting a number of workshops at the RIBA, the object of which is to consider some practical aspects of the issues raised at the main conference. The workshops will be recorded with a view to publication. They will be for delegates at "Building Communities" whose reaction to the packaged agenda is to want to keep talking, but they are also open to anyone else, and they are free. These are the six topics the workshops will tackle, introduced by the members of CAG who have elected to chair them:

The RIBA's Community Architecture Group has organised a one-day seminar on November 29 to round off the "Building Communities" conference. Ben Derbyshire explains the background.

work. Many authorities are nevertheless trying to improve their services or by employing consultant community architects.

The workshop will try to assess the value of these approaches, discuss the nature and value of tenant and user participation, how best to provide technical services, and how local authorities can support more community initiatives.

Douglas Smith worked for five years with the London Borough of Camden, spent one year researching at the Unit for Architectural Studies at UCL before working at the Terry Farrell Partnership. He now is a partner in Lazenby & Smith Architects where he has recently completed the community architecture project at Martlet Court, Covent Garden, for the City of Westminster.

Rural communities — the forgotten areas, chaired by Robert Poynton

Rural communities are under pressure on all fronts: housing, recreation, industry, services and transport. Against this context the workshop will confine itself to the question of building under the headings of housing, village halls and workshops, looking at the present situation and prospects for the future.

Robert Poynton is a partner of Poynton Brombury Associates in St Ives, Cornwall. He has been involved in a number of job creation schemes, community centres and village halls.

How should the RIBA respond to the problems of the inner cities? chaired by Pat Tindale

This workshop provides a valuable opportunity for those involved in building communities to tell the RIBA what they think the profession should be doing about inner city problems. What can the RIBA learn from the experience of community architects?

Pat Tindale is a member of the RIBA's inner cities committee, having recently retired from the post of chief architect at the DoB, where she was very involved with government initiatives such as the Community Projects Fund and architectural workshops.

Architectural education must respond to a changing environment, chaired by Robin Nicholson

The growth of community action requires more and more appropriately trained architects. The enabling architect may be the principal designer or may provide technical aid, working with the users and other professionals.

Coupled with the present low standard of architectural product, it seems that change in our schools is needed urgently.

The workshop will try to draw on past experience and put together a programme for the future.

Robin Nicholson worked with Ted Cullinan and Mingo Smith to develop the Lambeth Community Care Centre in an extensive programme of consultative design. He has taught in several schools and explored a number of community projects.

Building Communities risks from CAIS, 5 Dryden Street, Covent Garden, London WC2E 8RW, 01-240 2430. Details of the CAG workshops are available from Stella Yarrow, Community Architecture Office, RIBA, 66 Portland Place, London W1N 4AD, 01-380 5533.

BUILDING DESIGN

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The Editor's Comment



that it is only the wealthy who can afford to live in the country. Hence the burning of "second homes" in Wales.

But there are compelling arguments in favour of inner city development which are supported by the housebuilders themselves — and if the Prince of Wales is to be criticised it is over his failure to congratulate a number of builders, such as Barratt and Lovell, for the pioneering work they are doing in deprived urban areas. People will choose to live in the city if the housing is decent, available, and affordable. This is not something that can be brought about by housebuilders alone. The Prince's real message was not to the builders, but to the politicians.

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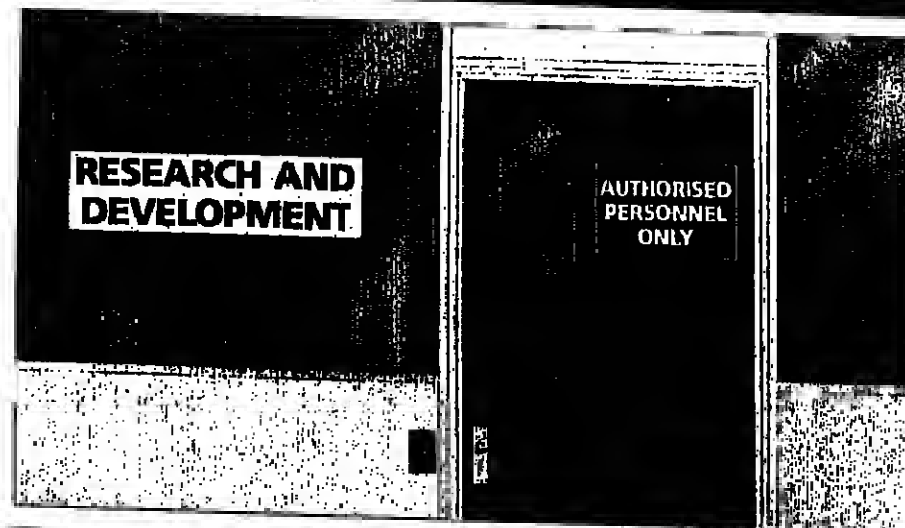
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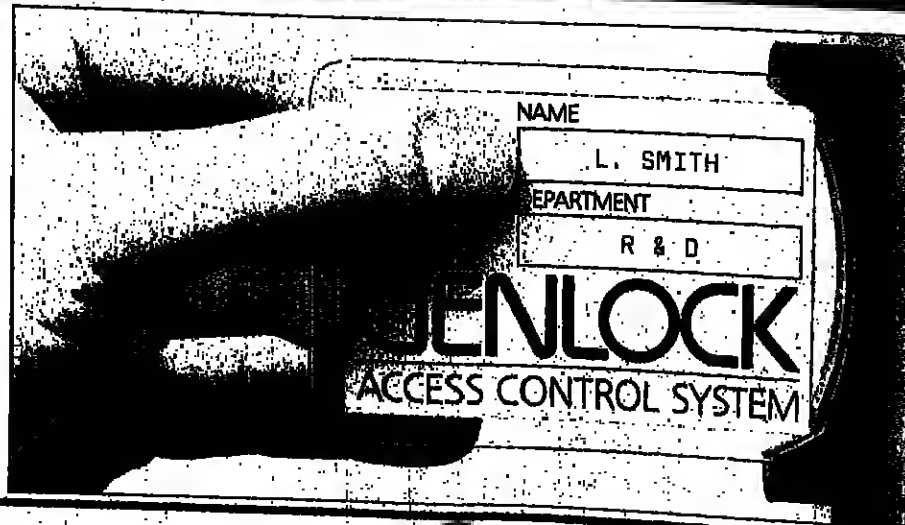
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Garden treatment

COVENT Garden, London's upwardly mobile shopping area, is the last place one expects to find crumbling tenement blocks.

Holland and Thurston Dwellings, built in 1855 by the Central London Dwellings Improvement Company — a rival to the more famous Peabody Dwellings — lie tucked behind Drury Lane, one of Covent Garden's main thoroughfares.

When Covent Garden practice CGHP landed the job of refurbishing the two blocks, funded by a local housing association, they found that nearly all the one-room flats lacked bathrooms, kitchens and adequate heating.

The main task, therefore, was to find extra space for new facilities.

Given an open brief, with a budget of roughly £1 million, the most radical change involved transforming landing to balconies and moving out the stairs in Holland.

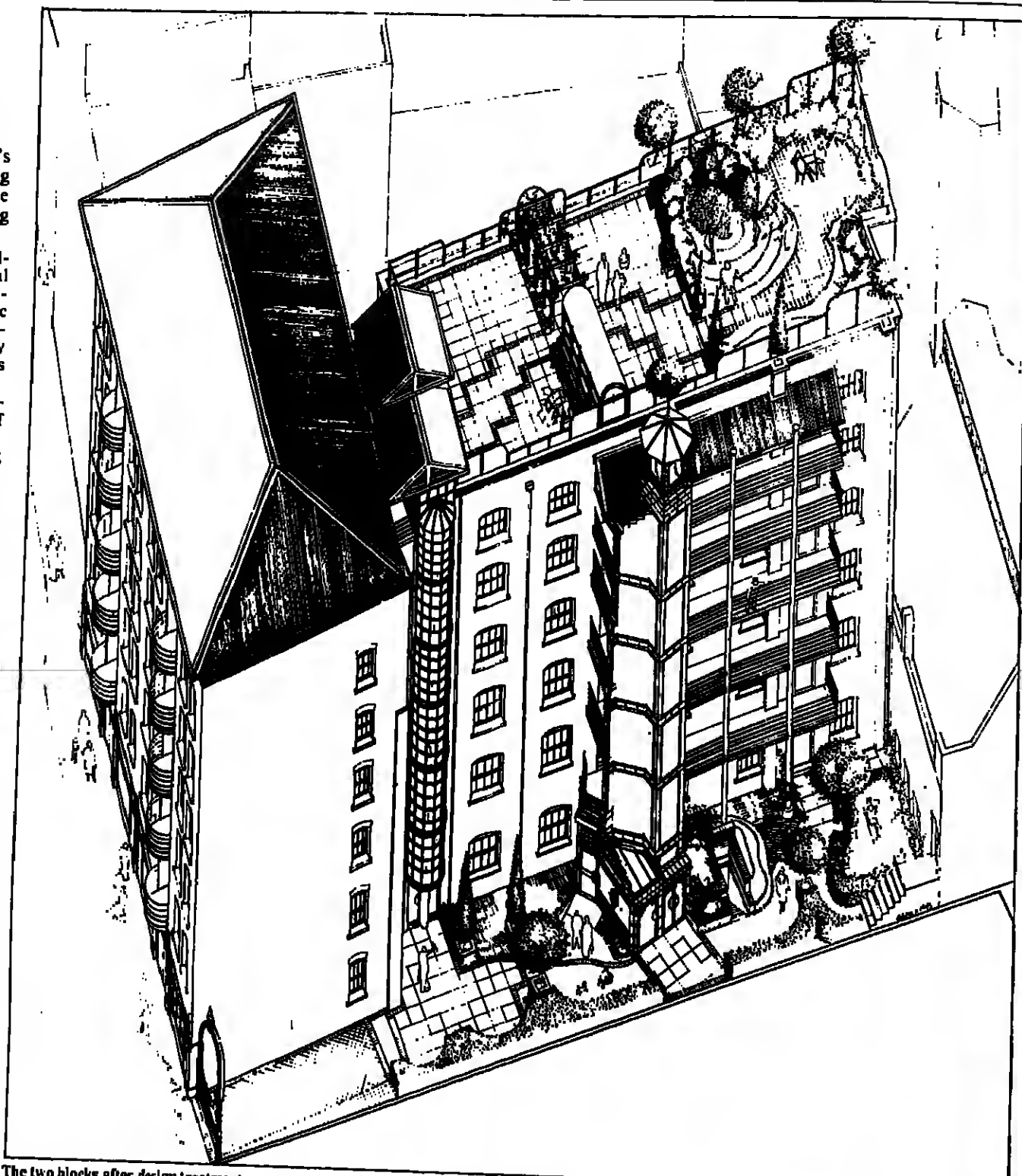
A new lift and stairs were put into the void between the blocks, and to improve security the entrance to Holland was switched to the back of the building and entry phones were installed.

Both blocks now have access to the tightly arranged garden on top of Thurston, providing a total space of 240sq m.

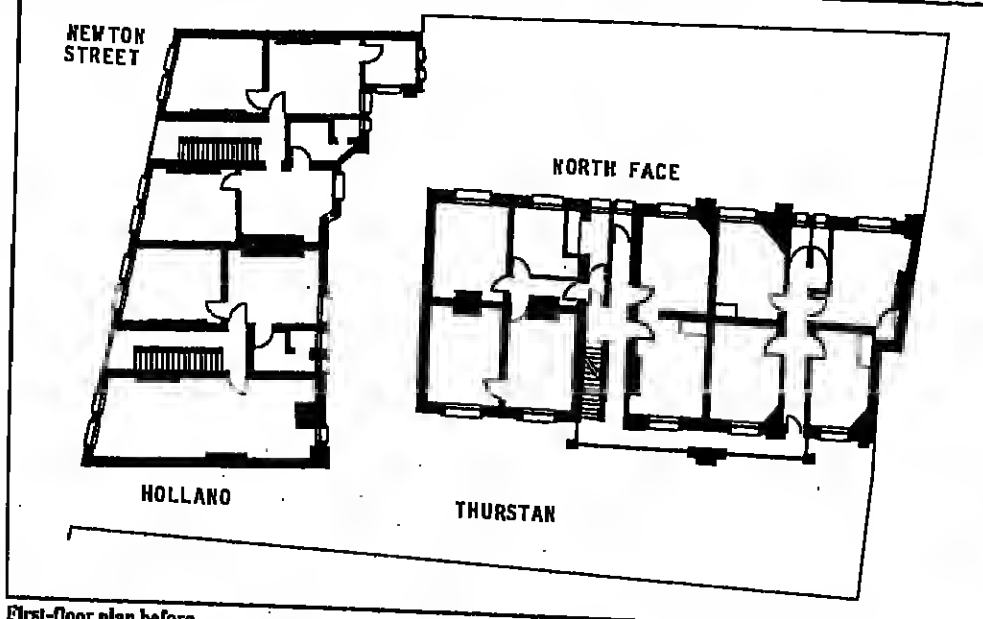
By building Holland's roof up one storey at one end and two the other, an extra floor was created, topped by a low maintenance, pitched aluminium roof.

Amanda Baillicu

Architects: CGHP Architects (Covent Garden Housing Project).
Engineers: RT Hume & Partners.
Quantity surveyors: Nigel Rose & Partners.
Contractors: Elliot Leyford.
Consultants: Energy Conscious Design.
Client: St Pancras Housing Association for Islington & Shore-ditch Housing Association.



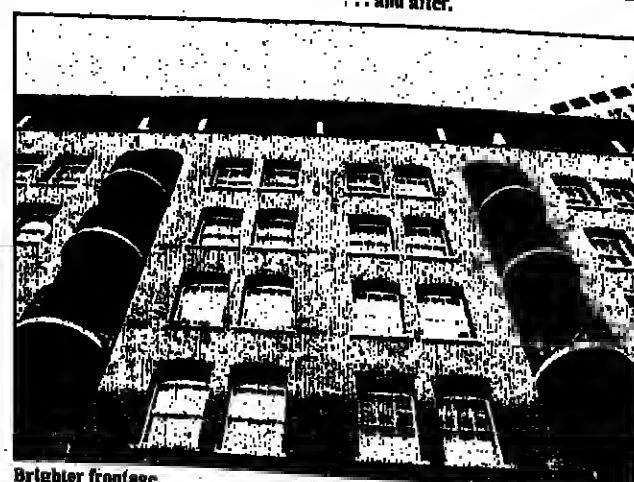
The two blocks after design treatment.



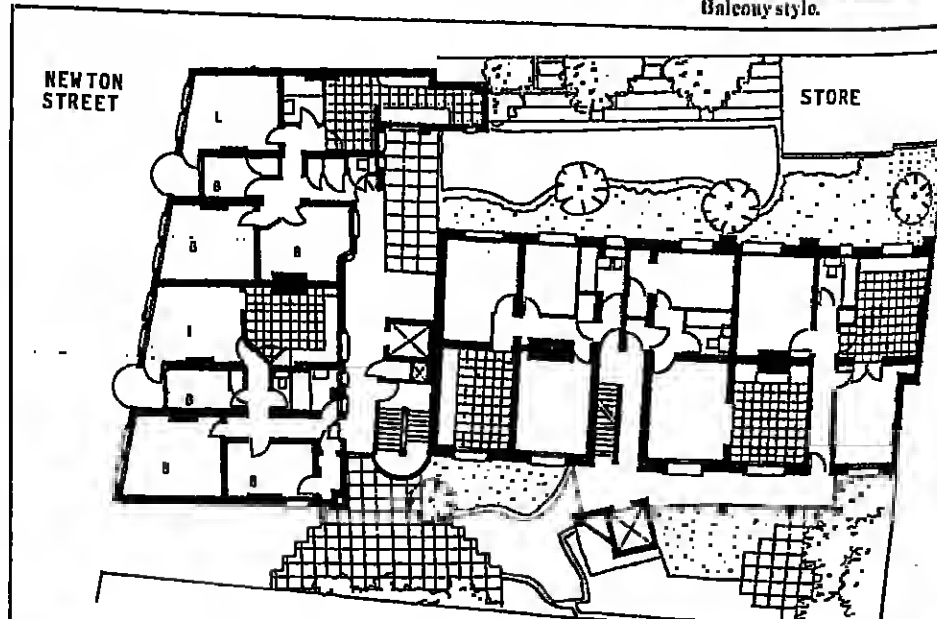
First-floor plan before...



View from the top.



Brighter frontage.

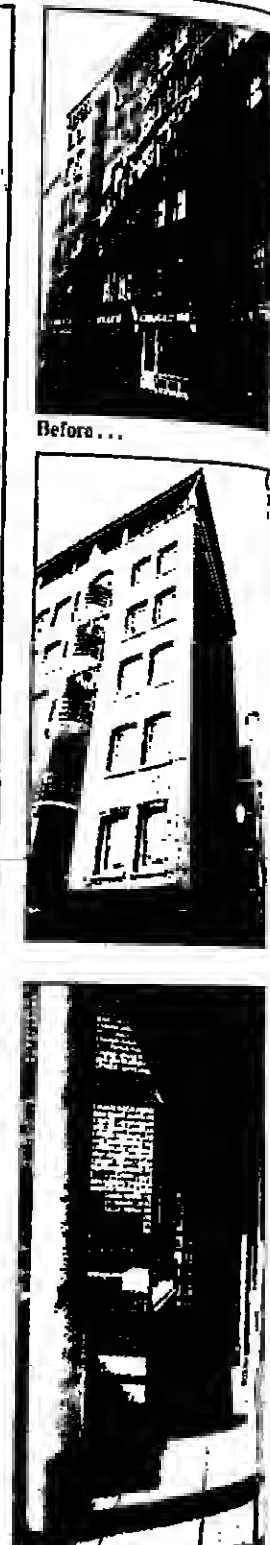


... and after.



Rooftop addition.

Balcony style.



Scorpio

Public relations in the semi-darkness

THE Architectural Press, and in particular cherubic Georgian features editor Dan Cruickshank, have gone into PR. Looking round for a suitable venue to launch Leon Krier's masterplan for the redevelopment of Spitalfields Market, developer Stuart Lipton chose the semi-darkness of the AP's basement.

But he should have known better than to hire Cruickshank as his front-man. Not only did his attempt to preclude *Scorpio* from proceedings badly misfire, he appeared equally inept at dealing with a crowd.

Packed into the "billiard room" the hacks who managed to get in, the way in, the AP minifia, plus the celebrity like my old friend Gavin Stamp, spent an uncomfortable 40 minutes trying to see the great Leon deliver the goods by the light of a dozen guttering candles. The few chairs that were provided were taken by AP staff who seemed to be under the impression that the whole event was some kind of private party. (How different from the last national press conference called by Young Dan at AP — attended by two people.)

Clutching a glass of Valpolicella in one hand and the "masterplan" in the other (was it really on recycled paper?) the benevolent Lipton explained why Leon was a genius. "It's a clear case of money versus architecture," said the friendly developer, replying to his remark at the RA that had appeared in these very pages only three weeks ago.

Usual considerations, like how much money Rosehaugh Stanhope could expect to make from Spitalfields, were not points on which he wished to dwell.

Cruickshank did manage to attract enough attention to inform us that the conference was at an end. We were all ordered to the bar so we could drink more disgusting wine from glasses which looked as though they hadn't been cleaned since Spitalfields was built, but as any chance of meaningful debate had been hijacked by a Georgian swap-shop in one corner, Scorpio beat a hasty retreat, vowing never to return.

Strangers on a train

IT is a year since the notorious incident of Rod Hackney's interview to a journalist on a train, allegedly breaking confidences of the Prince of Wales. This became a nine-day wonder, with all sorts of speculation about the Prince's architectural guru, and how Hackney would never be trusted again etc etc.

As Scorpio pointed out at the time, Hackney had operated as a stalking horse for the Prince, getting any flak that was going, and introducing the Prince's ideas on the inner city to the public stage.

Those ideas remain, as witness the inner city versus green belt speech he gave the other week. And his attendance at the opening of various Hackney community schemes demonstrate there has been no breach between them.

But there is another intriguing

aspect to the story which has not been remarked on — up to now. It is that on board the said train was a television crew. Why was no report ever shown? Because it would have confirmed the fact that the event was organised, in advance, with the knowledge and consent of the Prince.

Could this have been the start of that special relationship enjoyed by certain TV news company — which has given it so much exclusive Royal material and has made a fortune for one of its current newscasters and royal interviewers?

Caring profession

THE latest copy of the RIBA's official union magazine carries a stern warning about the dangers of Aids. Institute employees and visitors to Portland Place are told on how to prevent the killer disease (no sex, no drugs) in an exceedingly frank way. What a pity the institute can't inject the same honesty into its current thinking on nuclear power.

The warning follows a memo sent round the institute last year, advising staff about the dangers of door knobs — which were all doused with disinfectant.

Hitting the heights

TUNE into Channel 4 on Thursday for a 52-minute dose of "Skyscraper", a behind-the-scenes look at some of the world's tallest buildings and the men who made them.

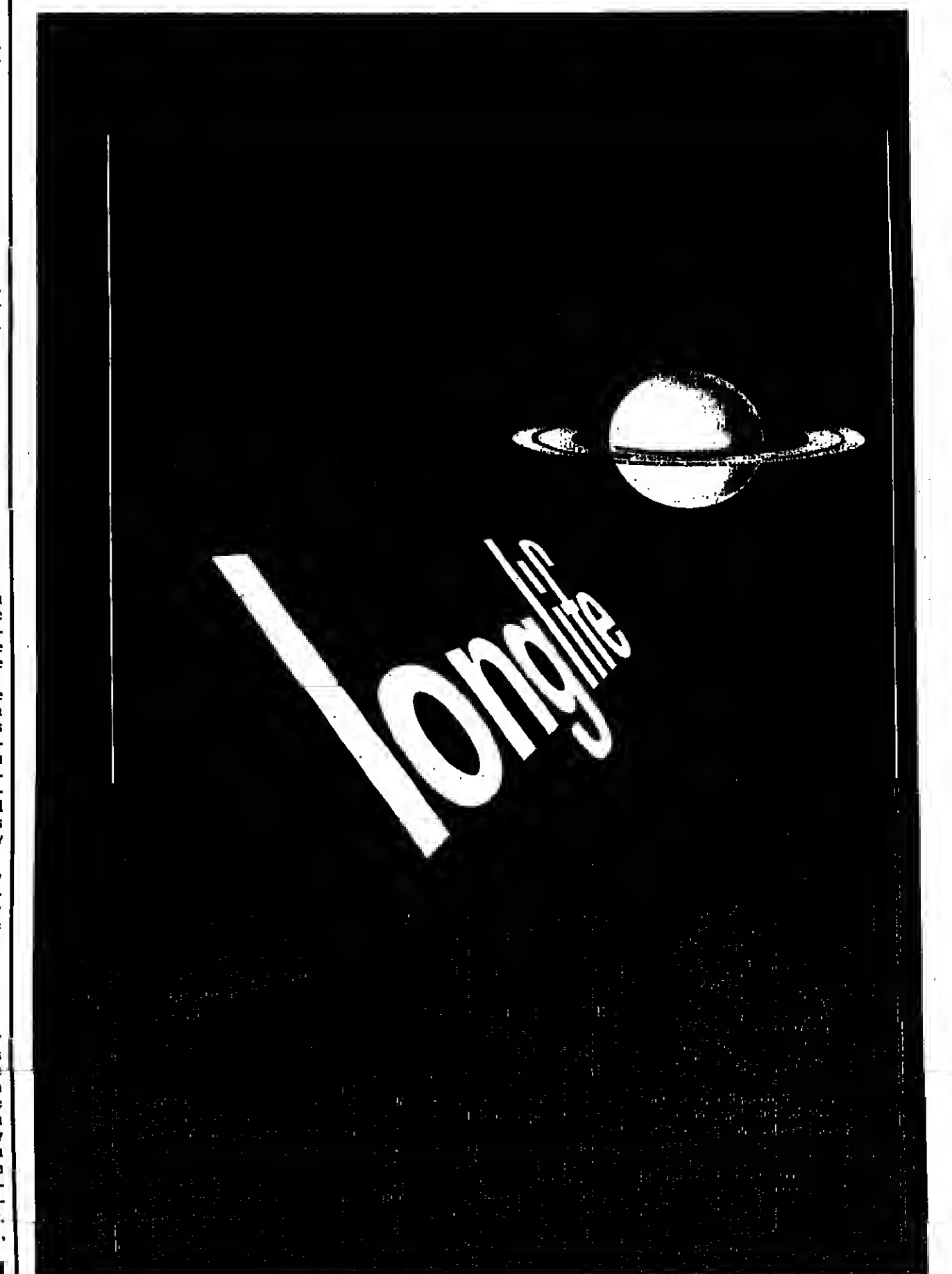
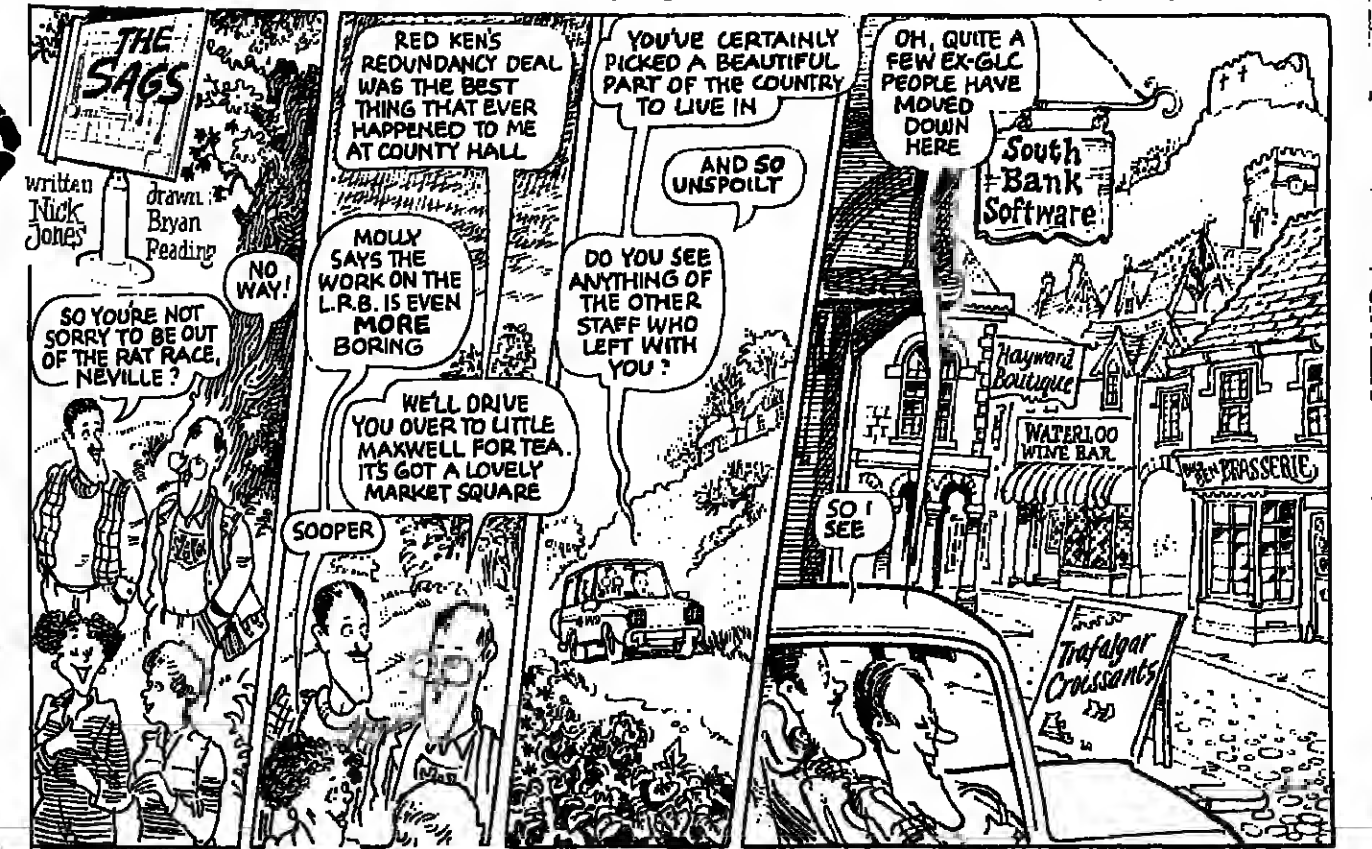
Promised highlights include how a London man built a model of Manhattan in his Fulham living-room, why Chicago architect Stanley Tigermat classifies skyscrapers as circumscribed or uncircumscribed according to their shape up top, and latest plans to trump the world's tallest building, Sears Tower, by one twice as high.

SCORPIO's early tip for next year's Royal Gold Medal — Geoffrey Bawa, the Sri Lankan who had an exhibition at the institute earlier this year.

10 years ago

ENVIRONMENT chief Peter Shore is meeting representatives from Ashford Council and the GLC over renewed fire fears in connection with polyurethane board ceilings. This follows a mammoth and critical report by Ashford's chief architect, Alan Parnell. He has also been instructed to look at the structural stability of all timber-framed housing in the borough. *Building Design*, October 29, 1976.

Statistics



Overseas notes

A picture of health

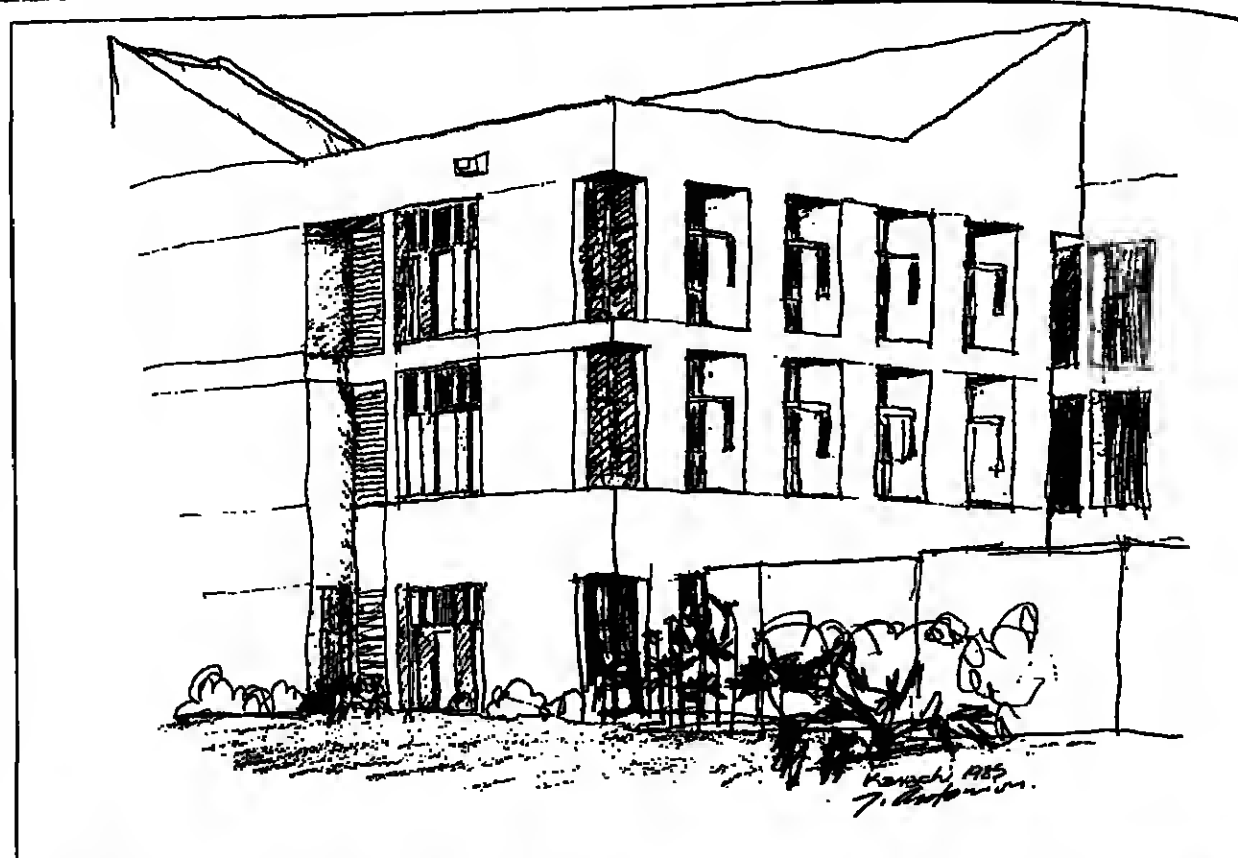


Jim Antoniou

TO take a trip to almost any one of the wealthy states in the Middle East is to be confronted with a panorama

of architectural banalities. At best, what has been created is a stark environment of efficient highways and modern structures based on the latest construction techniques, built at tremendous capital cost, in defiance of climate, terrain and human scale.

The result has been an architecture based on misconception. Stand on any street corner and look to one side and you will see the work of Arab architects who have strived to create their own mediocre version of Western architecture; look to the other side and you will see buildings designed by ill-informed Western architects which only they recognise as having Islamic qualities.



In reality, both groups have failed miserably, caged on by a pathetically ill-informed bunch of clients. Of the billions of dollars spent on development it is doubtful if more than 100 buildings with any sense of architectural quality are worth recording for the next generation.

Ironically, with the exception of Iran and Iraq, it is the poor countries in the region which are rich in the Islamic architectural heritage and it is the wealthy states which find themselves in search of an architectural language to fit buildings into their surroundings. It is not surprising, therefore, that in desperation architects working in Kuwait and Qatar have given themselves no other alternative than borrowing cut-and-paste motifs associated with royal courts of a bygone age. In far-flung places such as Cairo and Fes.

Consequently, a neo-Islamic millennium opportunity has been lost to create an architecture worthy of the resources available to small but wealthy communities. To achieve an architecture of innovative forms while still applying the principles of a regional architecture in the 20th century requires time and a recombination of a well-prepared brief with a sensitive approach to design.

To find such an approach, one has to look for a rich client outside the rapid development of wealthy countries. One example with these qualities is the new Aga Khan University Hospital in Karachi, now in operation for almost a year.

A hospital complex with almost 100,000sq m of site area may be small by recent Middle Eastern scales of development, but it does set environmental standards which are relevant to many Muslim countries, especially those which until recently have been boasting of their spending power. Here, a strong emphasis has been placed on the provision of health facilities, coupled with a desire to plan and build a new institution in a self-generating setting.

The design team of Peyette Associates of Boston (with Mozhah Khadem as consultant) took time to study the architectural history of Islam in order to interpret it into a modern but dignified complex. A basic problem of construction in Third World countries is that

builders used to traditional methods are ignorant of modern techniques, while modern architects and their contractors are ill-informed about traditional building methods.

In this instance, the design with the main contractor, Collops Cementation Co. (Pty) Ltd, has managed to maintain many traditional features of architecture in the region while pursuing of innovative building styles (eg the interlocking interior spaces, courtyard, etc) and careful landscaping, all designed as an integrated environment. A variety of indigenous environmental control methods have been incorporated to improve the comfort and penetration of the buildings.

For example, wind catches the roof pattern and the setbacks of windows in walls avoid direct sunlight, heat and allow for cross-ventilation. Textured wall surfaces subdue colours of built materials further lessening the absorption of the building. High level of integration between the interior and exterior has been achieved by the use of tiles, ornamental metal calligraphy, wood and plasterwork, rugs and fabrics.

This kind of approach to architecture can sometimes have additional advantages, at least by providing opportunities to develop and mature a variety of crafts and skills and use of local materials. Assessing of such carefully planned buildings can create new environmental standards in planned agglomerations such as Karachi and have a beneficial impact on future development in the surrounding areas.

How flexible the system adopted for growth and expansion remains to be seen. Although some departments have reached the limit of their spatial expansion, it is how the departments are being trained in these and pleasant settings, and working in the slums of Karachi and the poor rural areas of the countryside?

I doubt if anyone associated with the complex would say that the last word has been said on hospital design in this part of the world. Whether the complex of buildings is designed for prestige, rather than efficiency, only use and time will tell.

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GRANDEUR IN THE SUBURBS

Former Grunt Group member and RCA tutor Ed Jones left London in 1982 when he won a competition in Canada with Michael Kirkland. Robert Harbison visited the site.

THOUGH Mississauga isn't New Delhi or Chandigarh, those schemes of Lutyens and Le Corbusier seem the right places to begin considering the ambitious new city hall which is being built in Canada after a widely publicised competition (246 entries) won by Ed Jones and Michael Kirkland in 1982.

Encouraged by the brief, they came up with a symbolical edifice or series of architectural events which is far more

than another public building. It has been appropriately called erudite and witty. It goes further than any other sizeable structure I am aware of (leaving aside jokey fountains or out-and-out monuments which are turning up in a new mocking style as far afield as Siena, Barcelona, Washington and Toronto) in trusting ideas to carry the building, so that many of the elements are showing something long before one recognises that they are also doing something. Or perhaps it is that the building's scale and the

wide spaces around it allow it to send messages to the viewer long before he reaches it.

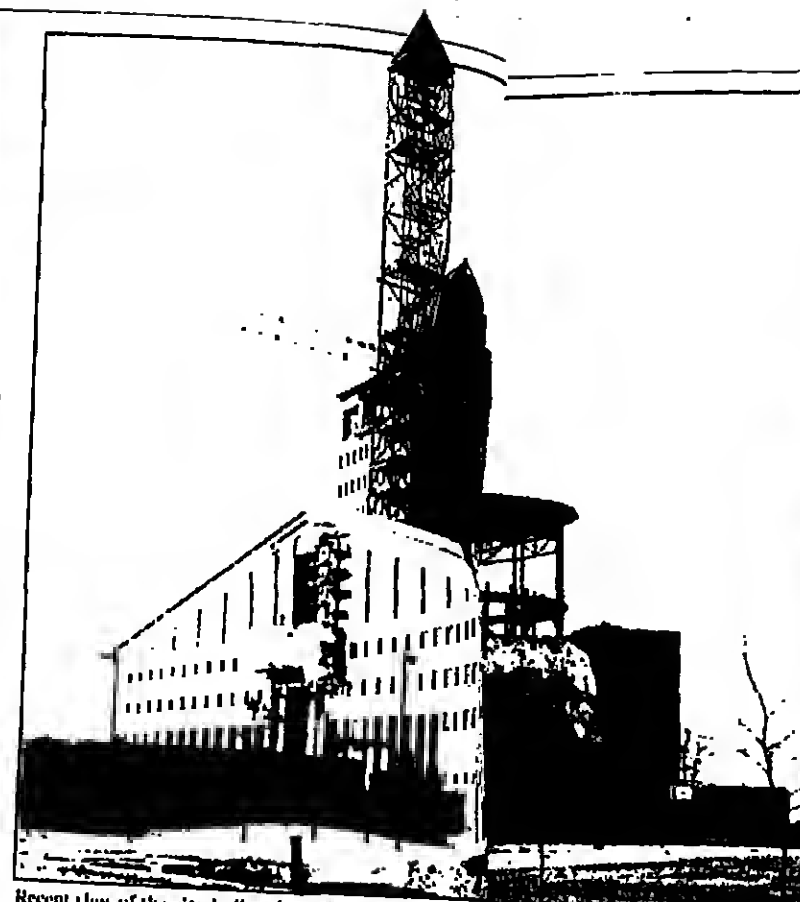
The key question is probably not how a building like this could be invented at present, but how it could come to be built. There is a wonderful (and how specifically Canadian?) confidence in man's ordering power in this design and its acceptance.

Everything depends on the place where it is going up. Now it is never safe to call any part of the earth truly awful, especially on an acquaintance as short as

mine with Mississauga. But in a two-hour visit last spring I found it about as bleak as suburban wastelands can be.

The plain north of Lake Ontario is not one of the world's remarkable landscapes, but when one finds it in something like the state of nature, it has a kind of a charm like a desert; even in April the columns tend towards a funny grey, lurking beneath the surface not only in building materials but in scrubby grassland and bits of wood.

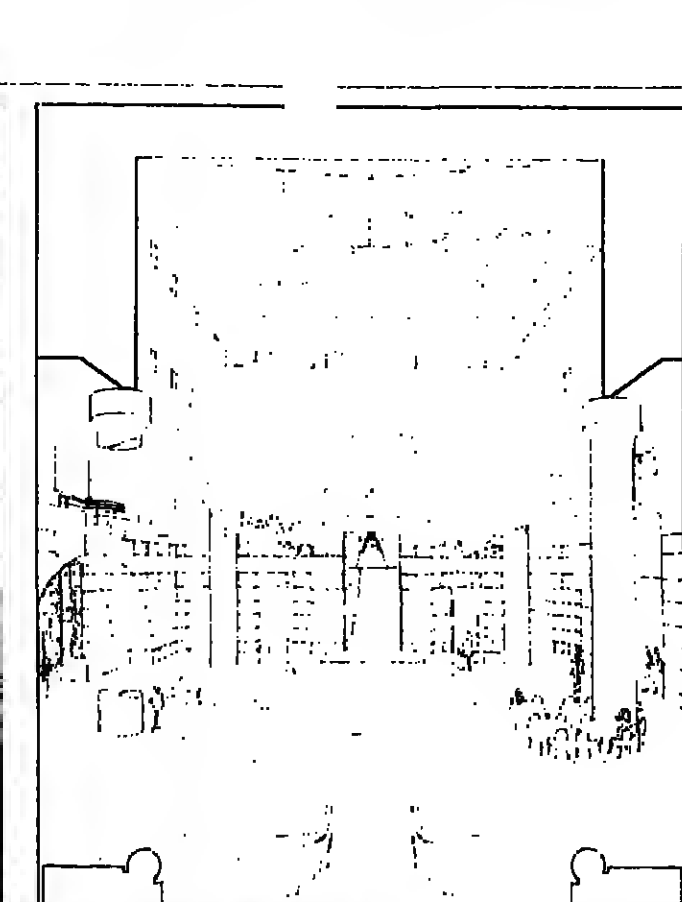
Mississauga is near enough to Toronto to be thoroughly



Recent view of the city hall under construction.



Rear view of model showing missing; Jim Stirling was a juror on the competition.



Perspective section through central hall.

corrupted and yet unable to support its own urbanity. It is an invented entity made of several existing towns whose mutual sprawl has now made them hard to tell apart. It is, sadly, a place or set of places fast losing what meagre identity they had.

Jones and Kirkland are presented with a peculiar 20th century version of the frontier of blank slate, a monotonous development without real centres or features, which still appears to leave little room for drastic amelioration because it isn't actually empty, just boringly filled.

One can slander places like Mississauga all too easily. Something must be right in Mississauga, because it wants Jones and Kirkland's building, which is like a massive injection of civilisation or a crash course in history.

The building tries to present lots of the long-evolved amenities and ameliorative gestures of older settlements, not in the digested and assimilated form one would find in a rich ancient city, but dissected as if in a primer or survival kit.

You are faced with the tremendously oversized pediment which sits down too near the ground as if still waiting for columns of adequate grandeur to raise it on high, as it also waits to be filled in behind, looking so

for almost the facade of a temple-to-be, an advertisement for a type of building which may eventually appear in these climes. In front of this are the various components of a gracious landscape park or garden — a maze, alleys, a pool, an amphitheatre.

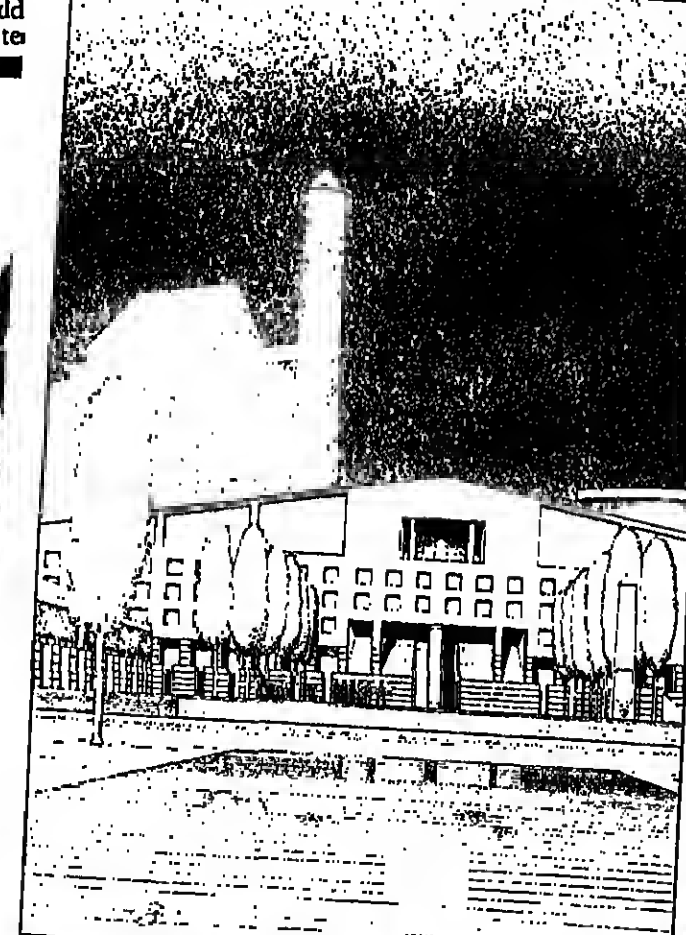
They jostle each other as if quickly sketched out or thrown impatiently down, because there is so much work to do that it cannot be done in a leisurely way or softened at the edges. Over this representation of nature the building presides, at its centre a mockery of the kind of hierarchic politics which sees palaces built.

And the centre, like a single eye, is a small podium high above the ground. "It is for making speeches", Michael Kirkland told me, but the politician who assumes the airs of a Duce would look an ass, so dwarfed by architecture and so out of touch with his audience and his troops.

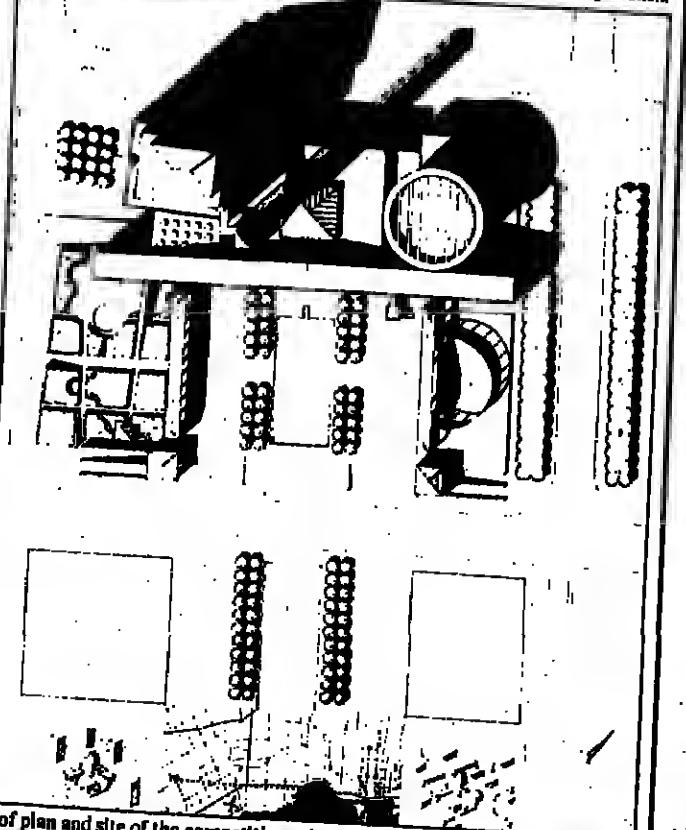
Inside, there are further deflations of pomp, like a grand staircase narrowing toward the top and making politicians its manipulees.

It sounds outrageous and would be unsafe to predict in detail, but like the imaginative Toronto City Hall of 20 years

continued page 18



Perspective view along major axis, showing tower and complementary obelisk.



Roof plan and site of the competition-winning plans.



Whatever your heating requirements, we can rise to the occasion.

A real fire can provide sufficient heating for any home, whether it be a modest bungalow or something a little more palatial.

There are literally hundreds of solid fuel open fires, room heaters, cookers and boilers available on the market.

Many can run central heating systems of one sort or another, and be controlled by modern heating devices such as room thermostats, time switches and thermostatic radiator valves.

In 1985, a survey conducted by Audits of Great Britain discovered that 30% of all new homes were using their chimneys for real coal fires.

This is largely due to the fact that running costs for coal heating are being kept down in relation to other fuels.

But there is also a growing awareness that the costs of gas and oil are bound to escalate as they become more and more scarce towards the end of this century. (This fact is acknowledged by the Department of Energy.)

Britain's reserves of coal, on the other hand, are sufficient to last the nation for 300 years at present rates of mining. Coal will therefore provide energy long after North Sea oil and gas supplies have dwindled.

In which event, all homes should be built with chimneys so that they can switch, at any time, from using gas or oil, to using solid fuel.

The National Consumer Council felt so strongly on this matter that their report entitled 'Paying for Fuel' contained the following words:

"We recommend that no home should be built with only one fuel supply. The Department of the Environment should direct public and private developers to ensure that new houses are never restricted to a single main fuel and that all new houses have flues."

There are also some very practical benefits to be gained by using a chimney. Benefits that increasing numbers of householders are beginning to appreciate for the very first time.

For a start, the chimney acts as a large radiator by storing heat and radiating it slowly back into adjacent rooms. What's more, the continuous warmth provided by a real fire, together with the natural ventilation from the chimney, help to eliminate condensation and dampness.

This, in turn, prolongs the life of the property, reduces re-decoration costs and is a direct contributor to the health and well being of the occupants.

For all these reasons, the demand for homes with chimneys is rising.

In order to assist specifiers who intend to make provision for real fires, the Solid Fuel Advisory Service have set up a successful scheme called 'Cosyhome'. Under this scheme, specifiers can seek the expert technical advice and marketing support of the Solid Fuel Advisory Service, free of charge.

Besides such present developments, foundations for the future are being laid by investing millions of pounds each year in a research programme carried out by the Coal Research Establishment at Cheltenham.

Their efforts are being directed towards making solid fuel an even more efficient, convenient and economical means of home heating.

Over the last year, for instance, one of their many projects has been to develop heating appliances that feed and de-ash themselves automatically. So there might well come a time when the coal-scuttle becomes redundant.

Thankfully, the same fate is never likely to befall the chimney, whatever shape or form it happens to take.

To: Solid Fuel Advisory Service, FREEPOST, Boxbourne, Herts, EN10 6DR (mailing house). Tel: (0992) 461608 (24 hour service). ☐ Please send me more information about modern solid fuel appliances and chimneys.

☐ I would like an SFA5 Technical Officer to contact me as soon as possible. Please tick appropriate boxes.

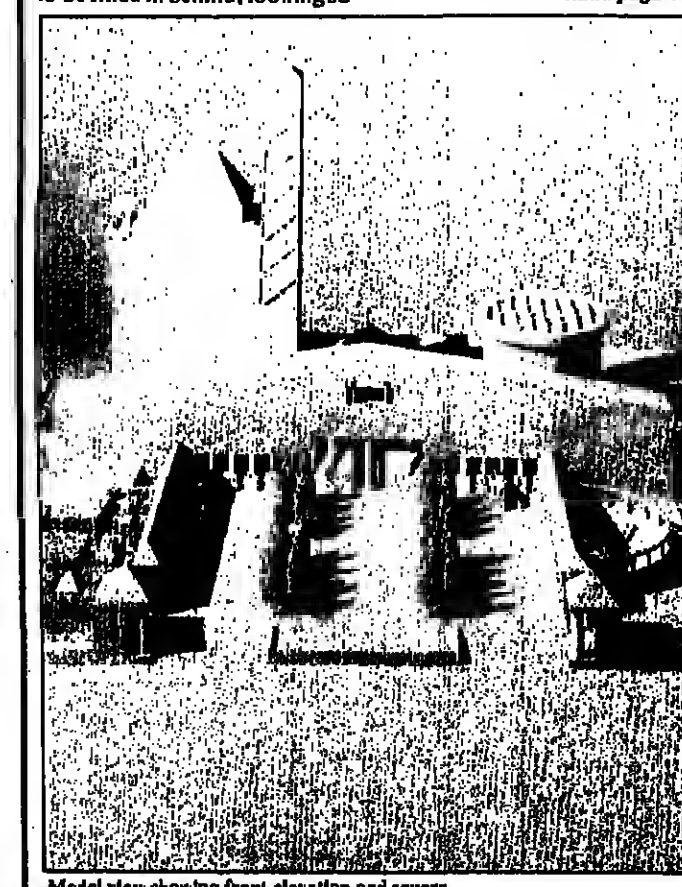
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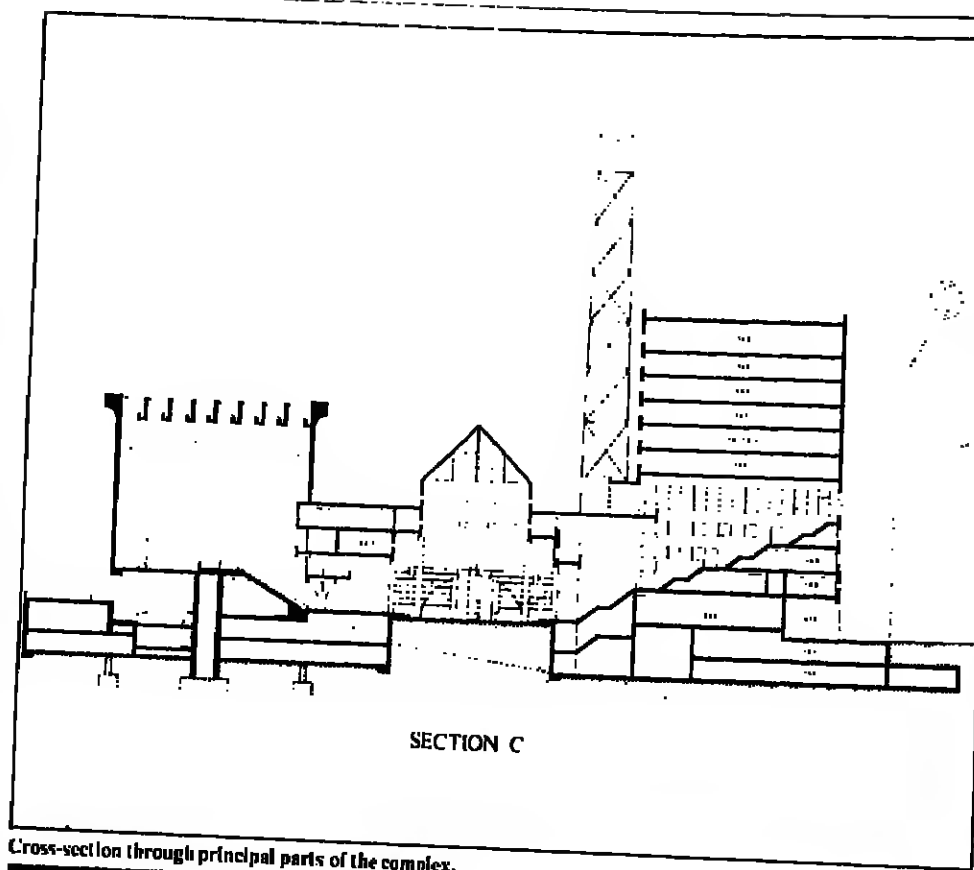
Tel: _____

Real fires start with British Coal.

NS/BD/001/CH



Model view showing front elevation and square.

A
O

Cross-section through principal parts of the complex.

Grandeur in the suburbs

from page 17

ago, I think this building will influence the political process. Not even the toughest or the most unperceptive user will remain entirely unaffected by its scepticism.

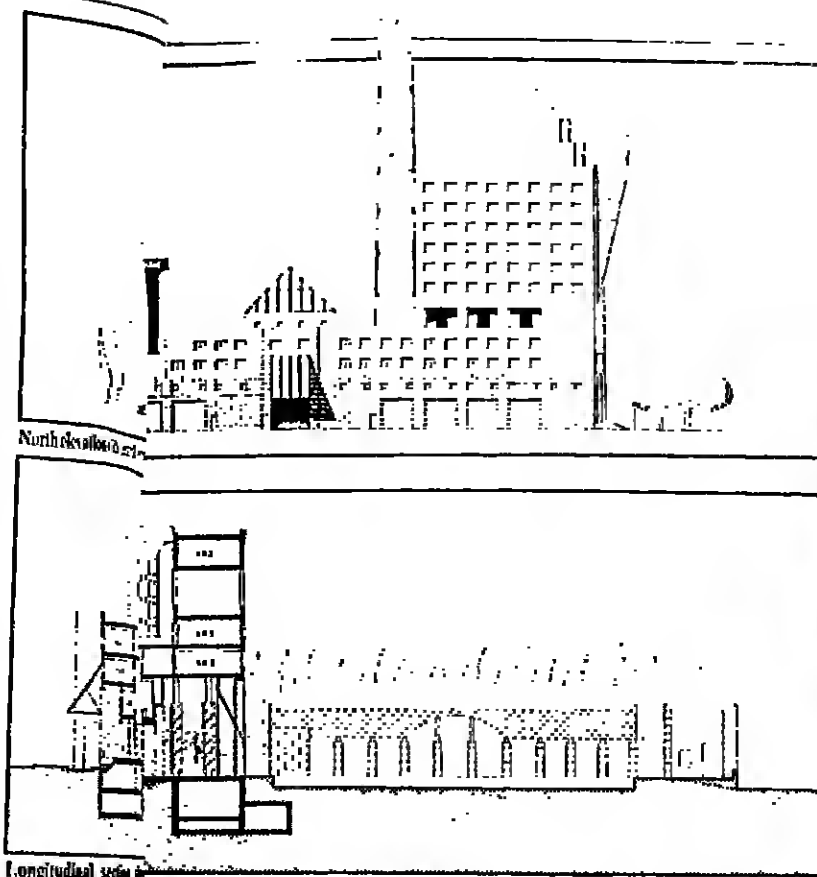
When one goes behind that grand and would-be pediment one may feel that from some sides the building has too much of an air of an anthology of architecture's geometrical range, for there is a collection of solids — cylindrical, conic and cubic. All similar to those satisfying toys for children which reduce all shapes and colours to a primary set of six or so.

But I appreciate the irony that so much recent architectural thinking is more vividly executed here in this backwater than in the more central places one might have predicted. But it is significant that we are almost in sight of Toronto.

It is Lisolt or Potsdam, not Chaux, near but quite distinct from a real centre, and therefore able to express urban theories and even dreams of high civilisation in a freer, more relaxed way than is ever likely in the metropolis.

Before long, students of ideal cities will probably be making their pilgrimages to Mississauga to see, not a city (because the architects' vision of how the new development will learn and radiate from their building seems extremely utopian — I wish it could happen but do not entertain any real hope), but a building which is the city. It ordains, in a connected series of acts, the whole range of public possibility.

So in some sense Jones and Kirkland have found the chance to imagine and build more grandly than almost any of their contemporaries.



Longitudinal section through the complex at ground level.

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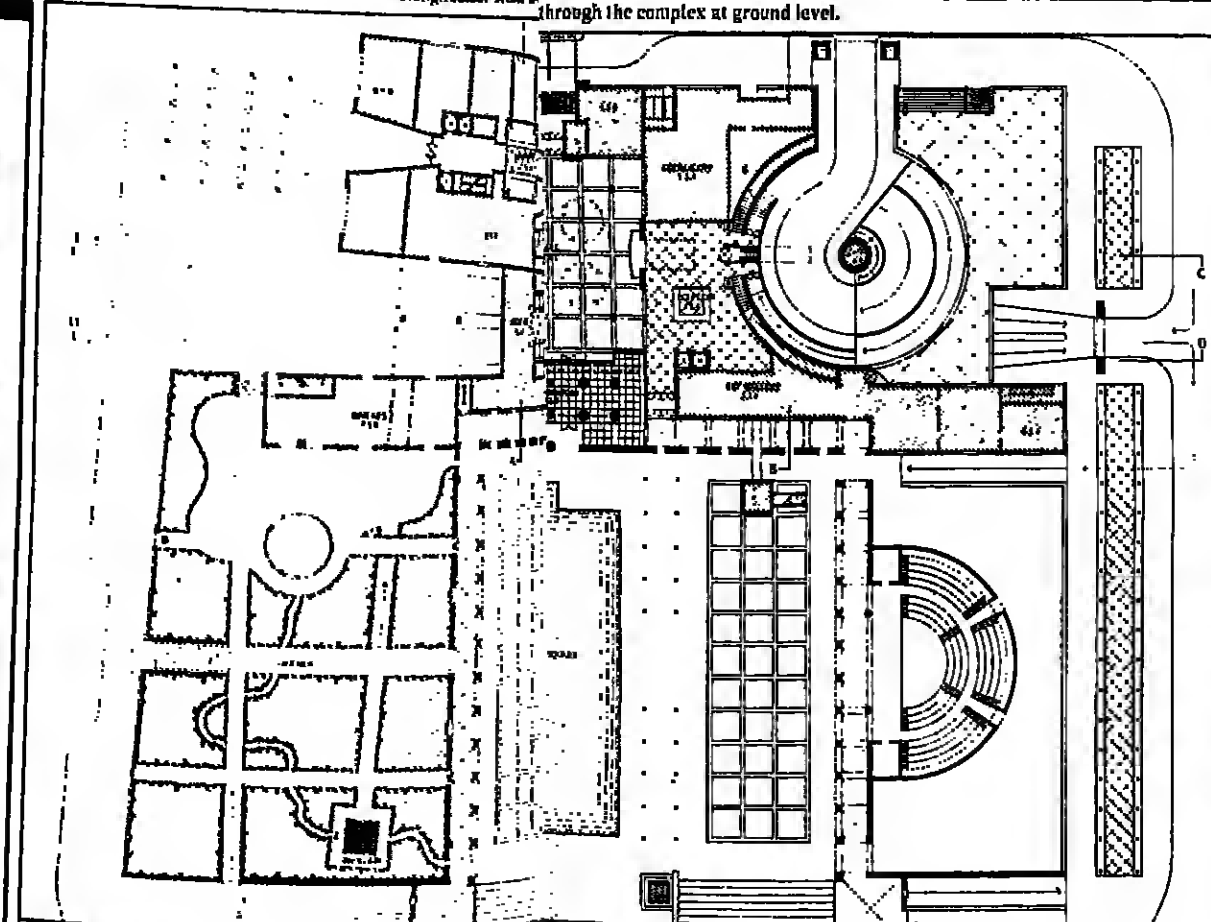
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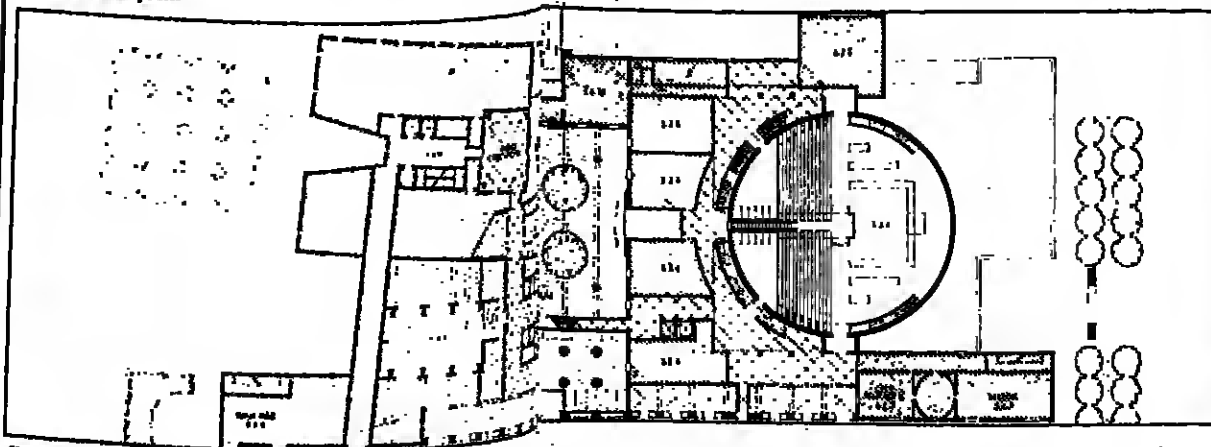


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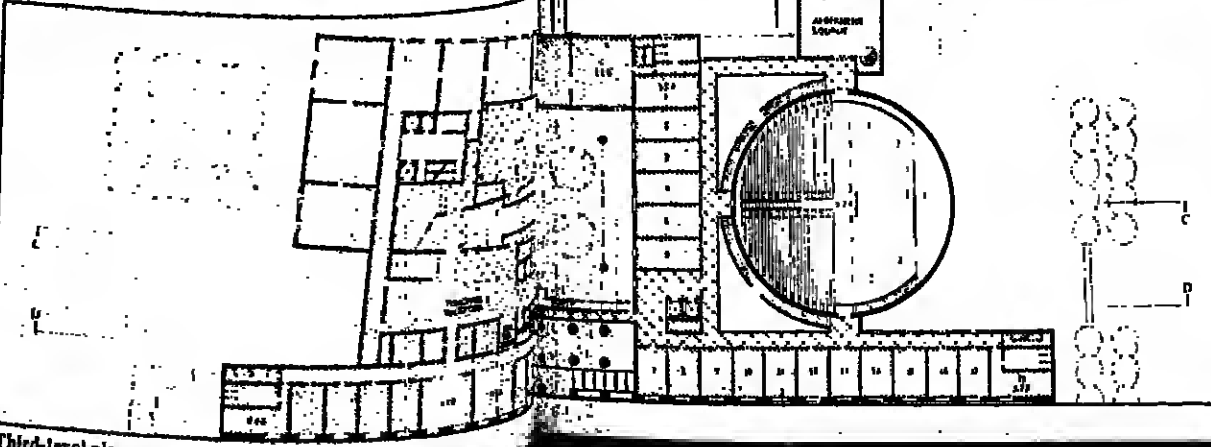
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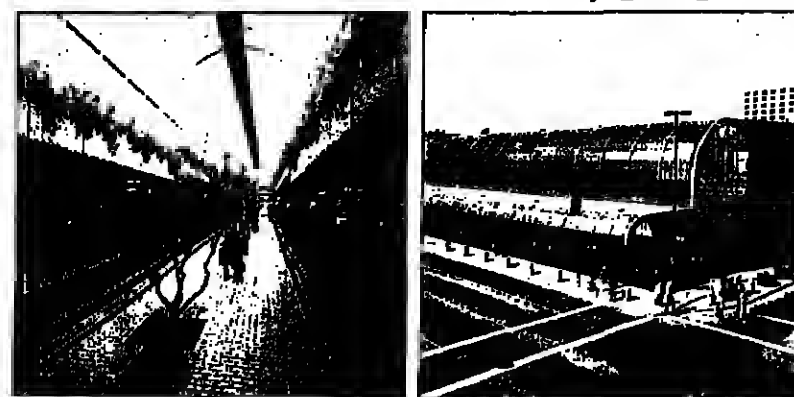
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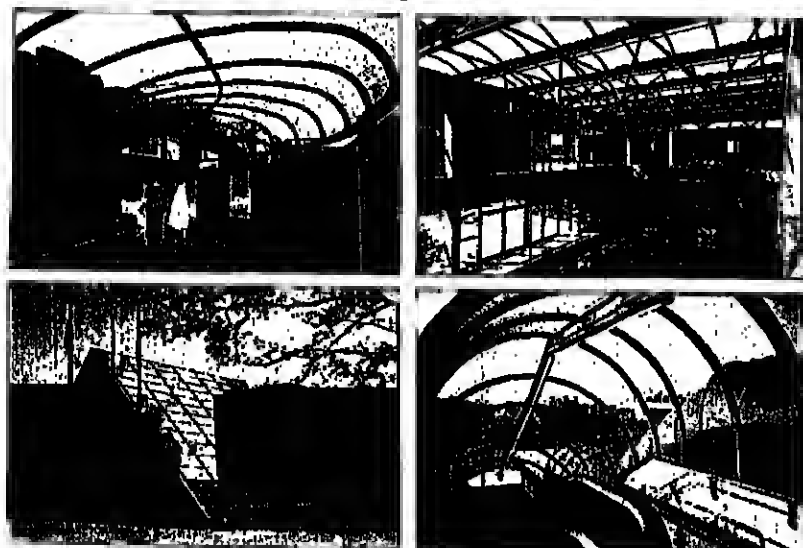
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SUNSET FOR THE STRIP

Alan Blanc tells the tale of three towns in Washington State.

THE American "Strip" is the biggest stumbling block for European comprehension and the reason why the irreconcilable aspects of the Yankee environment make one long for Europe.

Venturi writes on the Strip in *Complexity and contradiction in architecture*: "In God's own junkyard Peter Blake has compared the chaos of commercial Main Street with the orderliness of the University of Virginia. Besides the irrelevance of the comparison, is not Main Street almost alright? Indeed, is not the commercial strip of a Route 66 almost alright?"

That I feel is simply eyewitness for an apparition that disgraces every township, whether it be Jefferson's Charlottesville or Grand Coulee in the lee of the Coulee Dam, and that gives the USA an ugly commerciality that eventually drives the visitor to say USA — the Ugly States of America.

Jane Jacobs, writing on the *Death and life of American cities*, does not touch upon the Constitution and consequent economic distortions that give rise to the "Strip" mentality coast to coast. It is worthwhile appealing out these facts before looking at how these townships have set out to dress up the strip and make good the damage caused by decades of market forces wrecking the environment.

Zoning ordinances are part of the Constitution and were drafted state by state as the population spread westwards in the 19th century. In essence, urbanisation is a fundamental right and a township, once registered for development, lies within its blueprint the basic zoning divisions of commercial and residential. Grid planning is the norm for agricultural and

urban subdivisions, the latter often being by railway engineers with the plots drawn parallel to the tracks. Cities founded 100 years ago along rail routes were totally within the aegis of the "railway barons"; for further reference read *The Octopus* by Frank Norris 1870-1902. It will be compulsory reading for my students next time I visit the West Coast.

The term "commercial" has a range of gradations... heavy industry, transportation, warehousing, ruining the gamut through to offices and retail. Realism entered into zoning in California with the Chinese excluded from the commercial strip, a point that was overturned by their appeal to the Supreme Court, Washington DC. The "blueprint" is in fact simplicity itself: a grid iron of say 100ft x 100ft plots, enlarged to 200ft x 200ft or 300ft x 300ft in the commercial area and drawn in strip zones... firstly the railway tracks, alongside... factories and warehousing, next a service road, thence commercial and the main thoroughfare (the inevitable Main Street), a balancing commercial zone on the other side and finally residential.

The expansion of the grid is infinite in all directions. Town limits are not a limitation as the next settlement applies for township status so that ribbons of development line the trunk routes, now road not rail in the latter part of the 20th century.

There is a total absence of strategic planning in the European sense and many older areas in America are simply left to rot while new commercial strips are constructed with better and bigger shopping malls, science parks (term for hi-tech industrial) and business plazas (meaning office blocks)... five, 10,

even 20 miles away.

Democracy in the States is a matter of equal opportunity under the Constitution, and is the root of the dilemma when it comes to restrictive legislation; compensation for not having the right to zone or rezone being the mental blockage that frustrates long-term planning of the environment. Pro-Americans will term my preface "commonplace", but to outsiders it is necessary to grasp the point if one is to understand the incredible voluntary work by some communities to turn the tide against a very Philistine world in Main Street USA.



The American Strip: unpaved commercial strip at Grand Coulee.



Covered street crossing with lower canopies to shops.



Crossing the strip: looking towards shop fronts in Cashmere.

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Cashmere

(population about 2000)

CASHMERE is a small town in the orchard belt above the Wenatchee Valley and now bypassed by a motorway on Route 2, this being the principal scenic highway that leads 100 miles through the Cascade Mountains to the coastal cities of Seattle and Tacoma with a combined population of 750,000. This proximity (in American terms) implies heavy tourist traffic to an attractive alpine area, similar in many respects to Marigny in the Upper Rhone Valley.

Passenger traffic was withdrawn on the local railway and the chamber of commerce decided to look at ways of attracting visitors back to its Main Street now that Cashmere was simply a cul-de-sac off the main road. A farm museum was sited in the traffic interchange and a local architect, John Stiltonberg, proposed revitalising the shopping area by using covered ways to link the shops and to protect shoppers at pedestrian crossings. The style of canopy is vaguely New England Colonial — something

like the Pantiles at Tunbridge Wells.

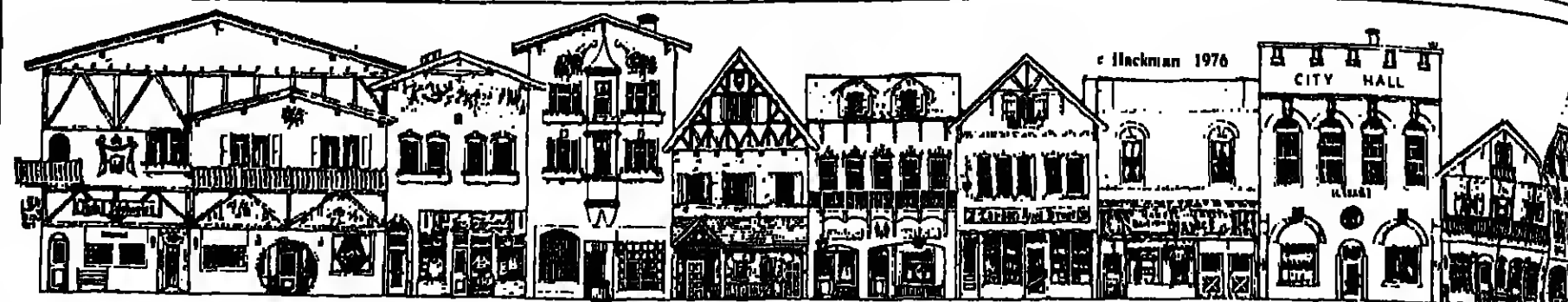
The photographs reveal that "something like" is far off the mark, but the reality is remarkably successful as the vigorous discipline of posts, beams and shingle roofs ties together the chaos of differing facades and unites the signage once and for all into small-scale features with well considered lettering. The "crosswalks" are superb as these split the total length into recognisable "places" or elongated squares and frame up the block that terminates the street at its western end.

Facelifts of this type are called "Main Street" schemes and attract federal grants for improvements to paving — brick and squares of exposed aggregate in the case of Cashmere — that give a grid pattern related to the facade.

The traders have had to foot the bill for the canopies, roughly \$4,000 each 10 years ago. Features like the "crosswalks" were met by a levy on all traders. Climate in the "Cascades" is severe, so the continuous cover now provided means rain or snow is not a deterrent to shopping and browsing.



Signage at Cashmere is tucked away under the canopies.



Leavenworth strip, more German than Würst mit pommes fries.



View along main street Cadillacs and chalets.

Leavenworth

(population 1,500, plus 1,500 outside city limits)

LEAVENWORTH has the good fortune to be a ski resort, but was beset with the same problems as Cashmere when the train service was withdrawn. The chamber of commerce involved the University of Washington at Seattle and a report was produced in 1965 which highlighted the assets of the township and its setting and the way in which an "alpine design theme" could be applied to the main thoroughfare to make it different from any other

main street on route 2.

Leavenworth is very typical of ribbon development, with the commercial zone running right through the town and to a depth of 300ft back from the frontage, the consequence being the scale of facades, whether Western or kitsch, is dwarfed by the space between. This is totally different to alpine resorts like Milren, where one shakes hands across jutting upper storeys.

This part of Washington has a sprinkling of German immigrants and had a nickname "Little Switzerland". The design proposal was accepted by the chamber and town council and a start made on the trans-

formation in 1965, the work being self-funded. It is difficult to get a figure for the building costs involved, but the modelling was more than cosmetic as the Tyrolean taste goes round four sides; the lean-to roofs and black felt top giving way to full pitched roofs (in the style of cuckoo clocks).

My impressions were that the Leavenworth burghers had anticipated the remake of "The Sound of Music" or "Heidi" and the profits that would ensue. Madison Avenue is never far behind and the adverts and signs take the cue... "Take Home a Leavenworth Burger". "Welcome to the Mallet and Volksmarch". "The Kinderfest" with the Tickle Tine Typhoon Band. "Junsbrucker Inn with Park Haus Gifts". "Hansel in a Hotel Delicatessen". "Zur Ratsstube Restaurant".

A lot of architectural skill has been employed to make the dream into a structured, timber-framed Bavaria, the leading local designer being Heinz Hübner, a former native of southern Germany. The shops cater for these "folk" from the Fatherland with lots of imported goodies and things back

centuries of the Family Room or "British War Horses" as known to the US tourists in times past.

Safeway had a complete the aesthetic from the for leaded lights 12ft high below a chalet roof.

Visual jokes apart, the touch has been north; shop traders are enthusiastic... there are empty shops, none of them like the one in the "Psycho" that film, really, being the best road to Americans and the architectural terms.

The Leavenworths to seek respectability original inspiration a rules away. The nations about American values, for Yankee certainly eclectic - the dying downtown in the settled for Mike to know another for the "Wall" Hollywood terms.

Leavenworth is ever, very proud in ancestral success, the late quote being from the Echo. "That's the story, someone asks you why

Sunset for the Strip

the money you have the answer... they did it themselves, with what they have saved or borrowed... Which puts a very American front on the Bavarian village. The whole continent seems to be very much in the fact it is run on "lick", but highly critical of central or south America that renegates its debts.

Pullman

(population about 16,000 within city limits but 30,000 within 5 miles)

THIS city is the wealthiest of the three reviewed and owes its unique position to the presence of Washington State University, which gives a young population of 12,000 or so, plus the back-up of educationalists and the service industry that keeps the place ticking over 12 months of the year. It should explain at this point that it has been my home for the winter semester.

The surrounding area of the Pullman is rich farmland and stretches 100 miles westward before other urban districts are found; to the immediate east lies the state border and a mere 12 miles down the road... the mirror image University City of Moscow, Idaho.

The lack of comprehensive planning within a state or across state boundaries is very apparent in Pullman, with ribbon development beginning to connect the twin cities and to erode the value of central area shopping in both places. Main Street schemes have been undertaken in Pullman and Moscow to counter the pull of covered shopping malls built in the suburbs, but nothing is done to

these zone limits along the connecting highway. The same disability in local government to come to grips with real issues in land use is the reason that a "Greenway" to connect the two universities has been a talking point since high establishments were founded 80 years ago! The actual path could be made on open land alongside the rail tracks and river.

The paralysis in planning rests with the old hogwags of zoning, the rights of riparian and trackside owners, compensation for lack of rights in future and the whole rigmarole of procedure that strangles democracy on the wrong side of the Atlantic and below the 49th parallel!

The goodwill and patience of the public is amazing, likewise the amount of voluntary time put into civic projects to get matters moving, although one is left with the view, politically speaking, that the alphabet and wheel are invented each time a scheme is inaugurated. Such an event took place last Easter when the Pullman Civic Society held a "workshop design" session to look at the current ideas for a walking trail to Moscow.

My contribution was to talk briefly about the work of the National Park Authority in the Peak District, where hundreds of miles of walking trails exist. The key comparison being the 60 miles of walks created on old railways or canal banks within a 12-year span and paid for from the rates; a really different world in terms of ideas and positive action to that seen in Pullman. It is this last aspect of public expenditure that is the rub in Reaganomics... minimal

federal funding... largely self-help and smug charity.

The "Greenway" proposals for Pullman were supported by state officials giving accounts of other schemes with a time scale of 10 years to fruition, like that at Yakima; the first couple of miles involving unpeeped organisations from Boy Scouts to Eiks and even Rotarians in weed, plant litterbins, put in shrubs, then put their names in proud fashion on every job completed.

The prettyfying attitude here is supposedly a direct reaction to the mess left by quarrymen and railroad engineers and much the same could be said of the new river park at Pullman.

The park in that city is the space left after architects and engineers completed flood prevention measures 10 years ago, the ground being a dump for cars and rubbish ever since. I'll credit for the transformation has to be given to the Pullman Civic Society (modelled on British ideas by expatriates) which auctioned off the dump in segments to volunteers to tidy and plant in accord with a general planting scheme. The before and after views show the changes made, which have inspired the society to develop a banner theme to decorate Main Street and to run a conservation committee that gives opinions on all building applications in the central area of Pullman. The city also has an active chamber of commerce and they completed a federal funded project for repaving plus a one-way system back in 1976, that operation being linked with a facelift to the facades, with redecoration and tidying of signage.

It should be explained that federal funding for urban aid is similar to HBC grants in the UK - 50:50, private to public. The fierce independence here means that the solicitor is reached for, if not the gun. The street improvements of Moscow were challenged by traders as not worth the investment (after the work was completed). This resulted in \$180,000 being paid back to traders on Main Street.

There is one final point, which relates to tax structuring. Credits are obtained for charitable donations, like the Smithsonian's provision of the National Gallery extension, or Geny's gift to the miners. It's not a matter in the States of a knighthood, but the hardhitten truths of tax dodging. The Yakima Greenway, already mentioned, is a registered charity which collected \$1 million in one year from a community of a few thousand.

Readers may think this can never happen in Britain. Well, in my view "Thatcherville" like Docklands represent Americanisation of planning with a vengeance, and one only has to look at the proposals for selling off surplus M25 land near the M1 interchange to see that the long-term principles laid down by Abercrombie a mere 42 years ago are totally forgotten by those consumed (to quote Lord Stockton) with selling the family silver.

The latest tax changes in the States will bring the base rates even lower down the scale, but at the expense of the tax credit system, so one could write that this tale of three cities is an epitaph to an era of self-help in the civic sphere, or of tax dodging to the more cynically inclined.



Main Street, Pullman, with linking canopies, new pavements and better signage.

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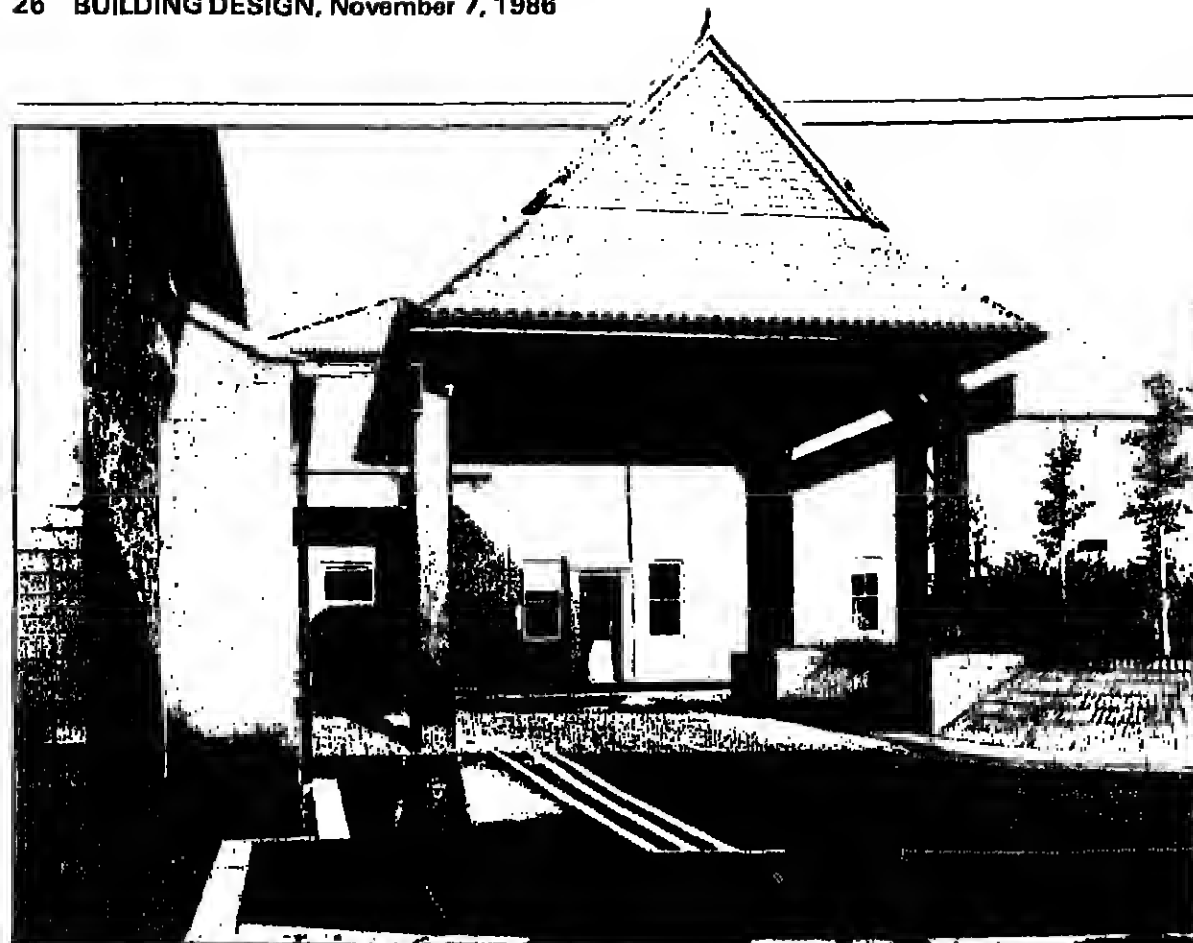
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Above and right: Maelor General Hospital, Wrexham, designed by the Anthony Clark Partnership for the Welsh Health Common Services Agency. The project was completed in 40 months with a 30.77 per cent saving on the budget by the end of May 1985.

TREATING THE CUTS

In the first of two articles on health buildings, Fiona G. looks at the pros and cons of the Nucleus hospital system.



Maldstone District General Hospital saved 3.48 per cent on the budget and was completed after three years in April 1983.

WITH health authority spending hit by Government cuts, architects asked to hand back fees and at least one regional health authority architects' department privatised, one hospital construction system is giving the health service a much-needed shot in the arm.

Nucleus has been the pride of the Department of Health & Social Security since its birth in 1975. No cuts have been allowed to stunt its growth and no health authority offered the chance to use it has refused. A £900 million programme of new-build and extensions has been undertaken, with 29 completed schemes and another 74 in the pipeline.

The system was born of necessity. The 1973/74 oil crisis brought a radical revision of the DHSS spending programme. If the country's regional and district health needs were to be met, a cheaper, quicker alternative to the Best Buy and Harness systems had to be devised.

The department's response was to design an intensive-use, first phase hospital of about 300 beds which, with the usual satellite units of a district general hospital, could provide for the needs of a 250,000 population for up to 10 years without expansion. The design had to provide sufficient but limited choice of content so that the first phases might be tailored to different service priorities, and efficient use of space through good functional relationships and clustering of departments. The new programmes had to cater for a wide range of sites, make maximum use of natural light and ventilation, allow for new fire and escape regulations, and plan for two-storey buildings with the option of adapting to three.

From this core, further units could be tacked on whenever resources became available, so that ultimately a district general

hospital of 600 beds could be built.

The result is a planning system which liberates the architect from the arduous task of calculating how much space should be allocated to each department, and makes the complexities of hospital design less intimidating for the uninitiated. Most Nucleus hospitals are designed by private sector architects and for some it is their first foray into this area of practice.

The success of the system lies in its simplicity. The primary element is a cruciform clinical "template" of about 1,000sqm which can be divided in a variety of ways to meet the differing needs of single or groups of departments. The form was the result of research into which standard shapes would be most suited to various applications and the relationships of departments to establish their ideal proximity to each other. Departments are linked horizontally by a 3m wide hospital corridor and vertically by lifts and ramps. The second element is the service and industrial areas, which vary to fit in most conveniently with each hospital. The programme provides an expanding kit which can be rejigged to suit the site and environment.

In its first applications Nucleus undercut alternative hospital planning systems by as much as 11 per cent, and although this margin now averages 7 per cent, the saving of up to six years in the planning and design stages is used straight off the peg produces a persuasive argument in the programme's favour. Savings are made in fees paid to consultants, initial capital costs, running costs and the reduction in the involvement of expensive and scarce project team personnel.

Nucleus was originally intended for the construction of new hospitals with the addition

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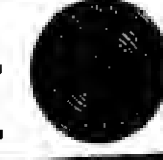
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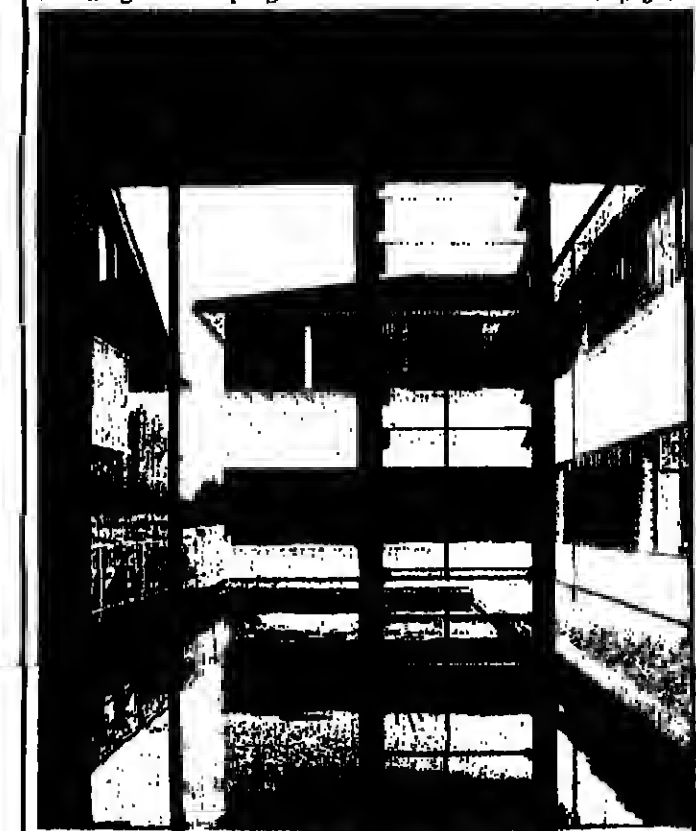
of single units or groups of departments to existing buildings seen as a sideline. Now its application as part of phased redevelopment has taken the leading role and research is being carried out into its viability for satellite units to care, for example, for the old or mentally ill. This would mean building single or double templates.

The first Nucleus hospital — and exemplar of the system — was Maldstone District General Hospital, designed by Powell Moya & Partners. Sir Philip Powell is in no doubt of the advantages of the programme:

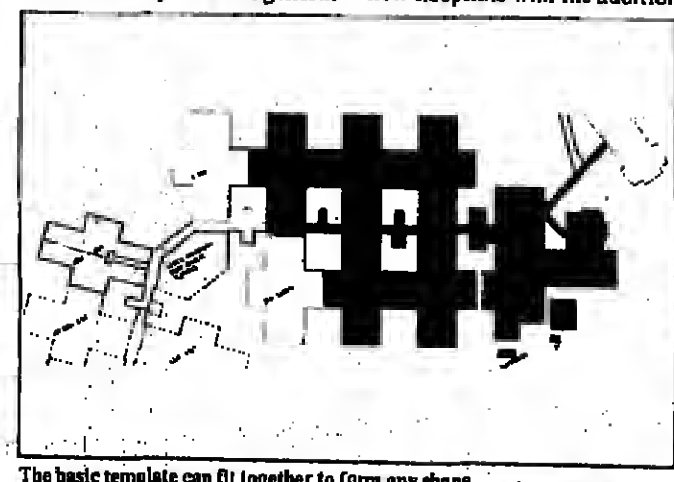
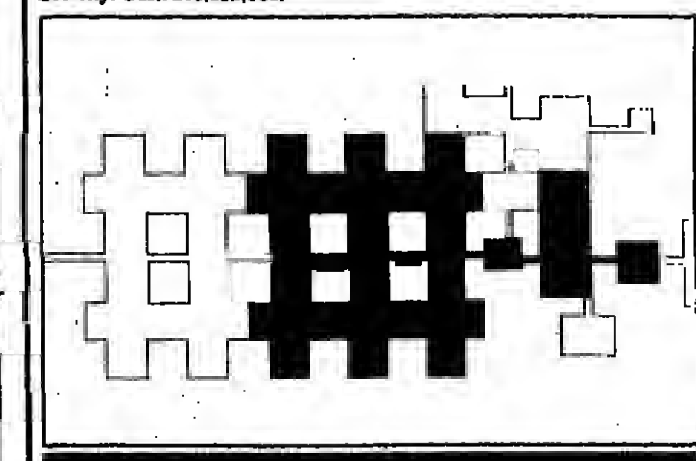
"Normally with one-off designs for a hospital the architect has to go to interminable meetings on who needs what and how much. The advantage of Nucleus is that, if you are prepared to put up with its discipline, you have time to choose the material and shape it. The time you save on planning you spend on other things as, for example, what I call real design."

Nucleus is not closed to alterations, but the planning system allows the architect time to consider the architectural qualities of the building and how to complement other features of

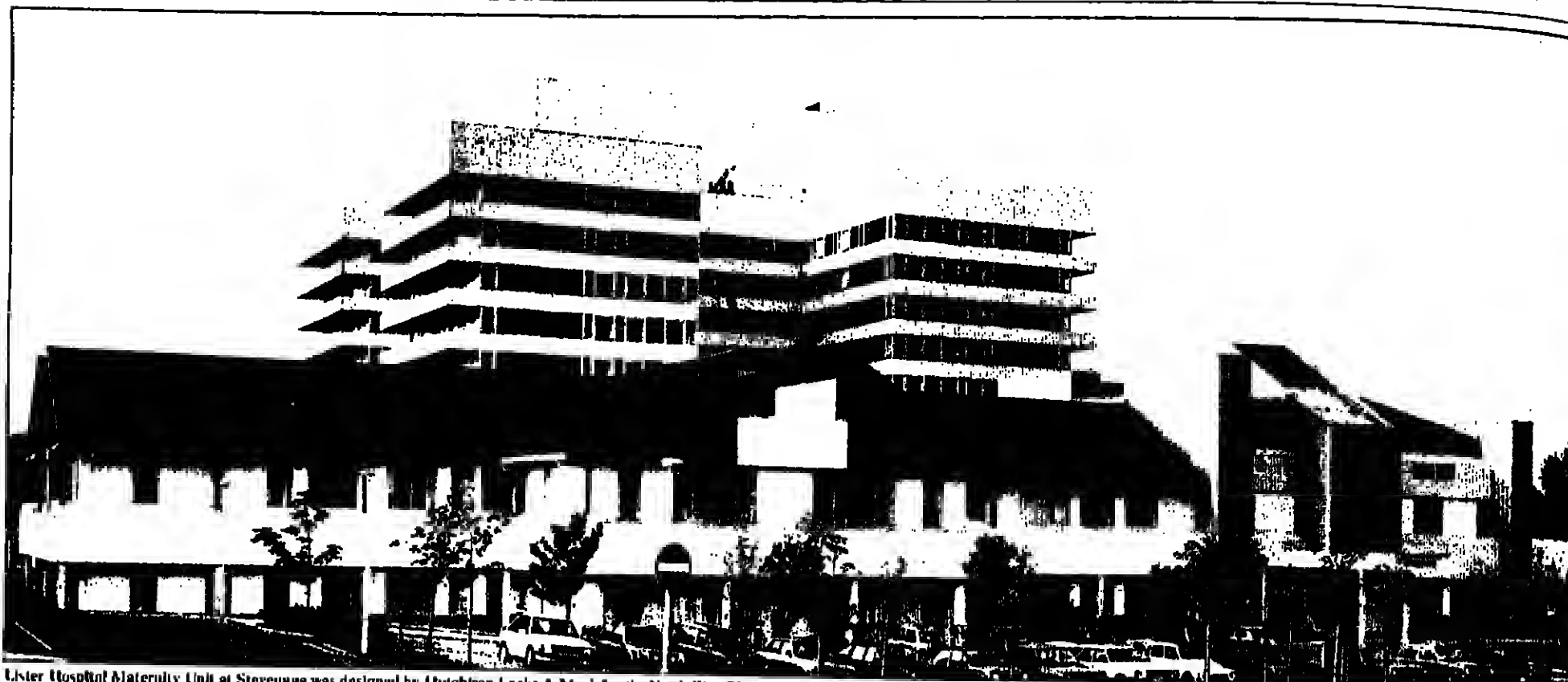
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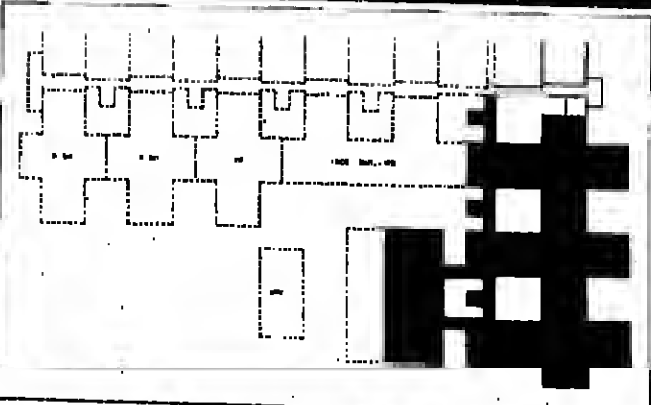
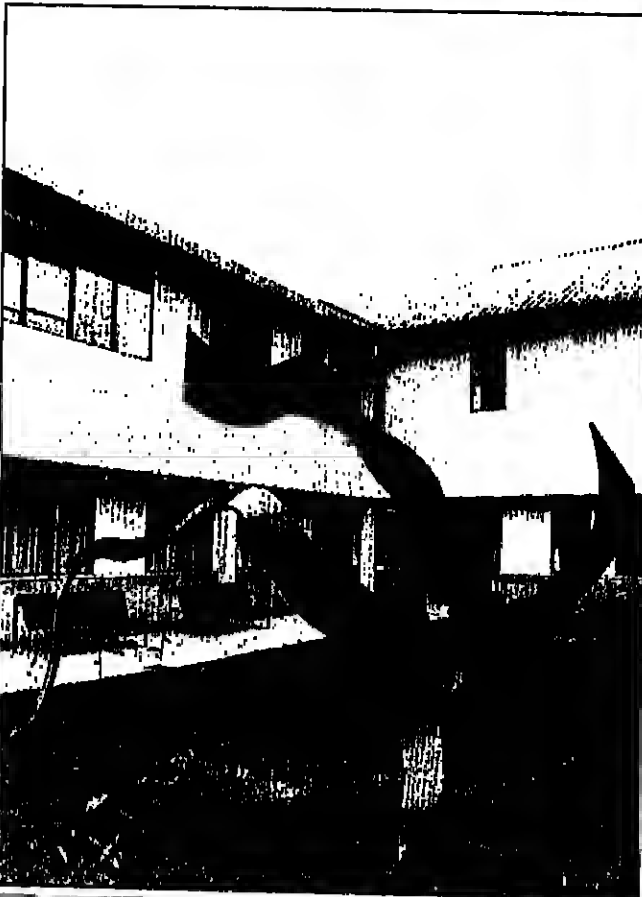
Powell Moya & Partners designed Maldstone hospital for the South-East Thames Regional Health Authority and the Department of Health & Social Security. Cost: £10,832,000.



The basic template can fit together to form any shape.



Lister Hospital Maternity Unit at Stevenage was designed by Hutchison Locke & Monk for the North-West Thames Regional Health Authority and cost about £2,500,000. The additional unit saved 3.92 per cent on the budget.



Treating the cuts

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the environment. It does not, as some early designer critics predicted, encourage a drab, uniform hospital type to spring up throughout the country. If anything, the data pack enables more thoughtful aesthetic treatment.

Powell recalls: "Lots of regions did not want Nucleus foisted on them in the beginning because they thought either plans would be compromised or the requirements of shape and size would make it impossible to make a decent building out of it." The practice's latest Nucleus project, in Ashington, North-

umberland, is quite different in form from Maidstone and is expected to cut energy bills by about 60 per cent when complete.

The 200-bed St Mary's hospital in Newport on the Isle of Wight, designed by Ahrends Burton & Koralek, is also destined to slash fuel bills. Although the practice has deviated from the Nucleus model in some details, partner Richard Burton explains that is not specifically for energy-saving purposes.

"Nucleus is a pretty good system in terms of energy efficiency. It is naturally vent-

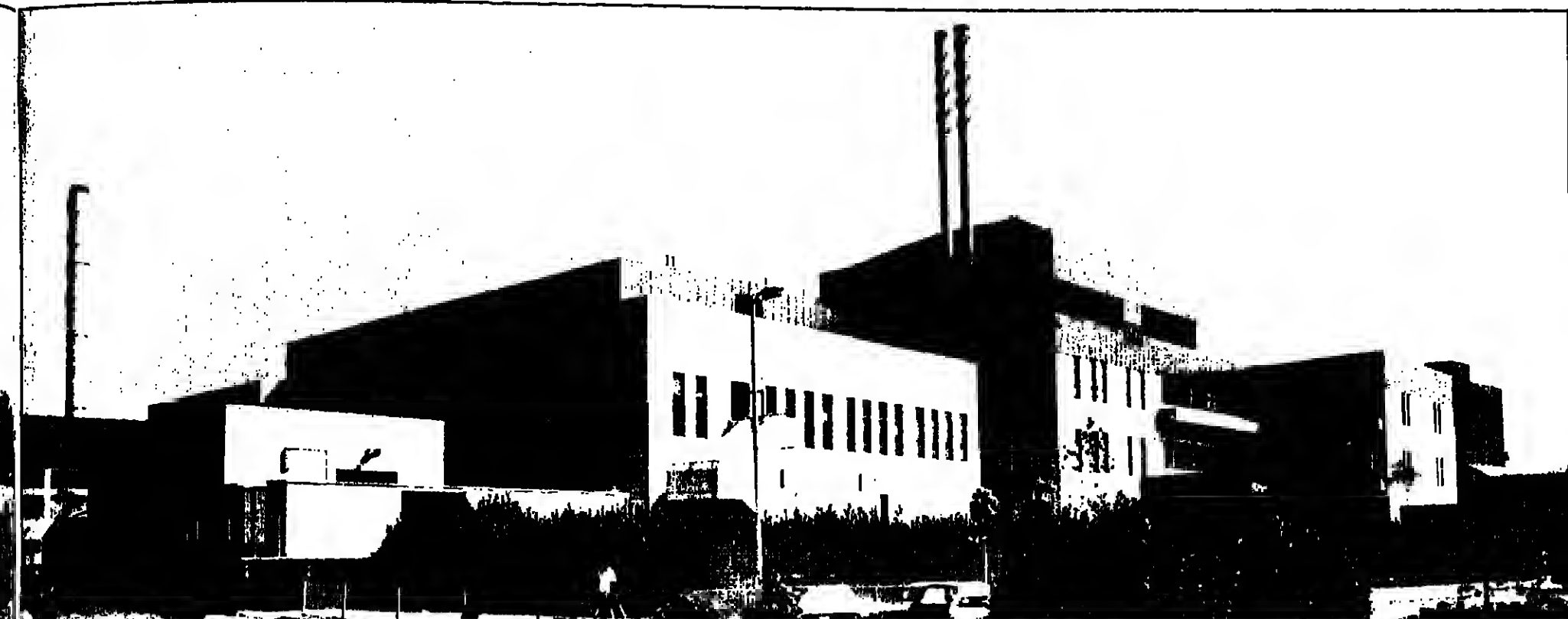
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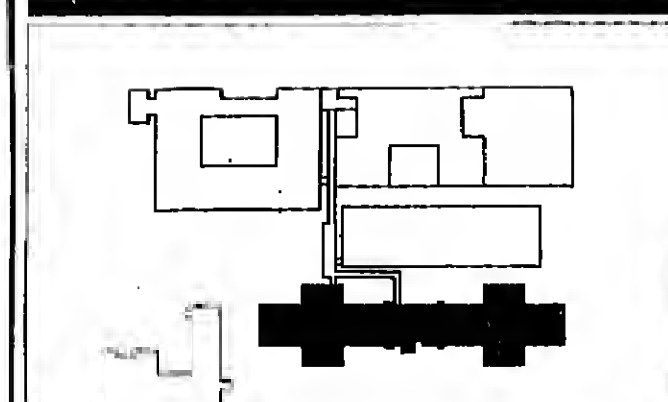
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N M E N T A L L Y D E S I G N E D



The three-storey Mayday hospital in Croydon was designed by the Percy Thomas Partnership for the South-West Thames Regional Health Authority. The system shaved more than 3 per cent off the budget and cost about £8,520,000.



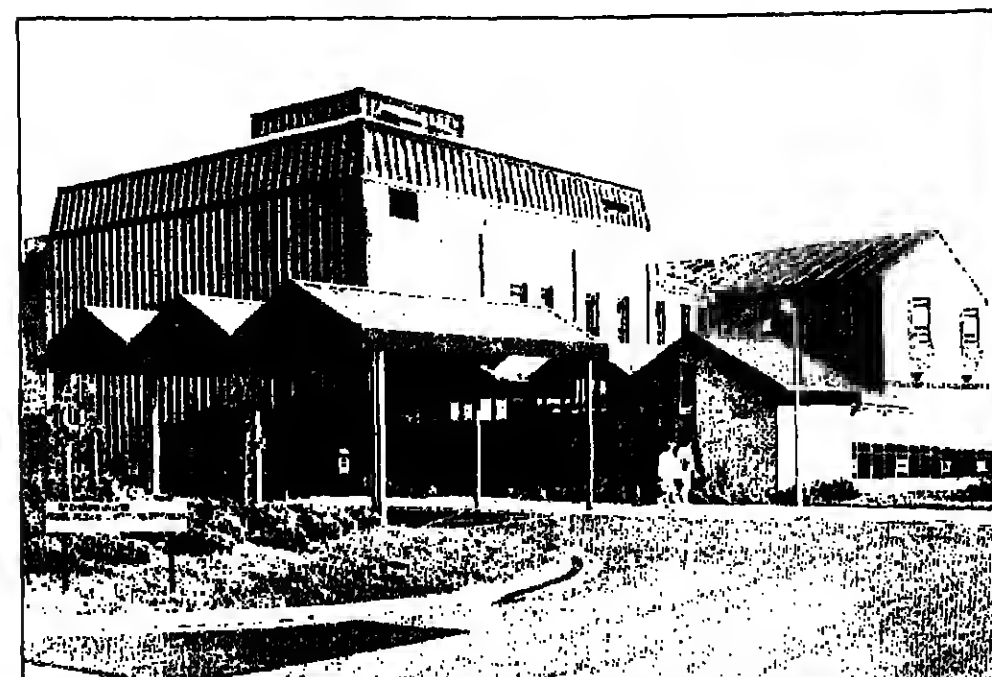
ilated on the outside and artificially on the inside, with an extract in the middle. It starts off quite well. There is quite a lot of external wall area, so you get light and air easily. All the things you would do for good house-keeping in a design are not constrained by Nucleus to any great extent.

The ABK design has placed the wards on the second story, increased the insulation and added double-glazing and special ventilation to discourage opening of windows in the winter, and electrically operated doors to minimise air movement. Although Burton is optimistic about the efficiency of Nucleus, he believes research

should be carried out into whether there should be more insulation in the ground floor in certain ground conditions, such as where there is water close to the slab.

Hutchison Locke & Monk were the first architects to use Nucleus as a back-on addition to an existing hospital. The total contract time for the Lister Hospital Maternity Unit at Stevenage for the North-West Thames Regional Health Authority was 24 months but architect Martin Dolafosse estimates the programme cut the planning time by half, with about 60 per cent of the practice workload given over to hospital

continued page 30



Designed by the Welsh Health Technical Services Organisation for the Welsh Health Common Services Agency, the Murrilton Hospital in Swansea was finished after 45 months in August 1984. The total cost was about £9,435,000 and 10.78 per cent was saved on the budget.

Treating the cuts

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The system has not been without its problems. The Medical Architecture Research Unit of the Polytechnic of North London has investigated its success at the Newham, East Surrey and Countess of Chester hospitals. The verdict: "Good in parts."

Delafosse admits that there can be difficulties in adding on units if the site is constrained, and envisages problems if the template system is used with small units: "Nucleus can be made to work, but it requires a localised plant room for each template. This would mean a lot of plant for a small area, which may not be economic."

John Kelly of MARU says: "If it is chosen carefully in the context of local needs and the infrastructure that is already there it works well. But there are inherent limitations, for example, paring back ancillary

space." Kelly suggests that some departments fall foul of "template tyranny", forced into areas to which they might not be best suited.

The Nucleus design does produce some odd bedfellows, says Kelly — "the operating department is squeezed in with medical staff accommodation."

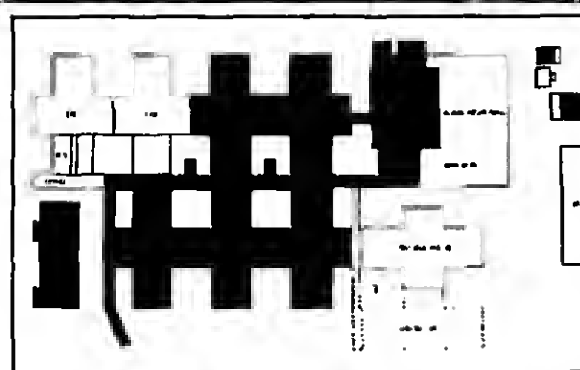
Inevitably, some of the calculations of how much space would be needed for a particular function over what period of time went slightly awry. For example, at Newham hospital the administration was seen as a "soft" area into which the X-ray department could expand as it



grew.

In practice the X-ray area was already too constrained and the administration had to be removed early on.

But with an annual budget of £400,000 for research and development and an in-house medical team to ensure that feedback is positive and the system remains up-to-date, the DHSS is confident that Nucleus will accommodate new practices in medical care and not become obsolete.



The arrangement of the wards is one area where YRM left the Nucleus brief.

Variation on a theme

The influence of the Nucleus planning system has been felt in many hospitals, some of which the DHSS would not acknowledge as Nucleus designs.

The Homerton District General Hospital in Hackney, east London, is a "Nucleus-based" hospital rather than the standard design. While the architects have benefited from some of the time savings of the Nucleus datapack, they have not been limited by some of its design constraints. Designed by YRM Architects & Planners with YRM Interiors, the 444-bed hospital opened its doors to the first patients a few weeks ago. It was commissioned by the North East Thames Regional Health Authority in February 1978 and started on site in June 1982.

Although the building conforms to the spatial requirements of Nucleus, the arrangement of beds and departments has been adapted. Homerton is not based on a hospital "street", but a series of rectangular pavilions made up of four L-shaped wards and linked to form a square court. An access corridor bisects this to leave two smaller courtyards. In the wards the architects have departed from the Nucleus standard of having beds parallel to the

exterior walls; here they are arranged on the perpendicular. This makes it easier for patients to see out of the windows and for the staff to see them.

The hospital includes nine wards of 28 adult acute beds, three obstetric wards with 84 beds, a delivery suite and special care unit, two 24-bed geriatric wards, an oncology ward, adult day-care ward and an eight-bed intensive care unit. The out-patient facilities are designed to cope with up to 120 patients in a three-hour period. The department includes a fracture clinic, consultation suites, X-ray facilities and four operating theatres. This is backed up by extensive service provision and a separate education block to the north of the 5.5ha site.

The £16 million design is made up of four reinforced concrete steel structures, clad in warm yellow brickwork and topped with pitched roofs of blue-black slates. A network of sophisticated services is catered for within the ceiling voids and roof spaces. The architects have used landscaping around the four main buildings and included window boxes and pergolas to achieve a domestic and homely appeal as possible.

Homerton hospital replaces the Victorian Eastern Hospital and borrows elements such as

the east-iron columns from the covered walkways to achieve continuity in the new design. These have been used to support the pergolas.

There is some scope for expansion within the hospital and the site allows space for new buildings to be added.



The rectangular pavilions are made up of four L-shaped wards.

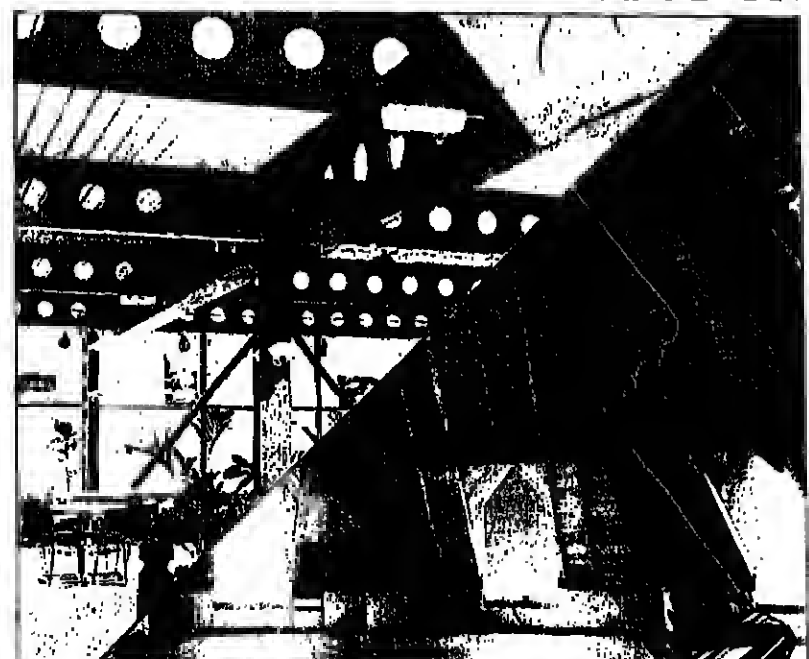
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Tim Harris, Connaught Design Group

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Ecophon Focus panels are made of a lightweight, rigid material that can be cut to fit any shape or size. They are also available in a variety of colors and finishes to match the interior design. The panels are installed using a simple, quick-fix system that allows for easy removal and replacement. The result is a ceiling that is both functional and aesthetically pleasing.

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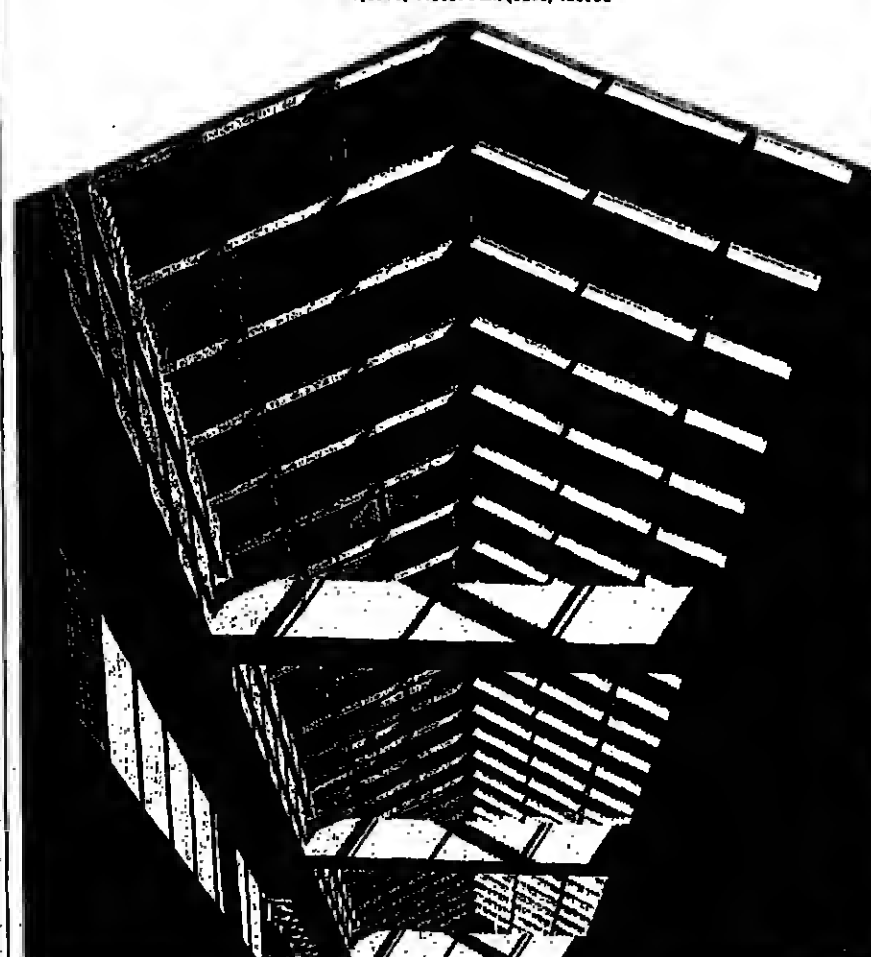
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THE ELUSIVE REALITY

Jasja Reichardt reports on the "Understanding Images" symposium sponsored by The Rank Prize Funds, attended by neurologists, philosophers, historians, novelists and computer scientists.

IMAGES exist in the external world as a physical reality and in the brain as reconstructions of this reality. Or do they? Can their "whereabouts" be so easily defined?

What we call images are among the most ambiguous, elusive and multifarious phenomena. The means available for approaching and discussing them are equally varied. Those discussed include pictures, pictorial instructions, signs, gestures, dance notation, computer graphics, images in film, descriptive and narrative images in literature, optical illusions and configurations that do not exist.

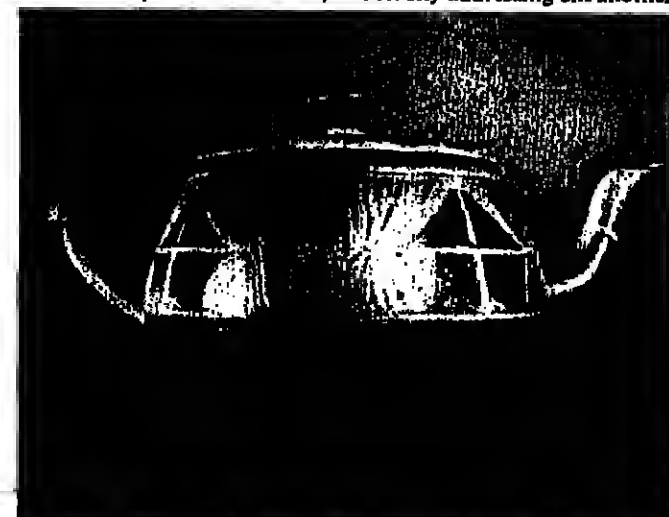
When we look at images, the most fundamental events, explained Horace Barlow, occur on the level of individual cells in the brain. Responses are highly specialised, with single cells reacting to, say, a degree of orientation of an object, its thickness, darkness, hue, brilliance, speed, direction. Most experiments dealing with an attempt to locate precisely the populations of cells or individual cells which demonstrate these specific responses have been done with monkeys.

David Perrett's experiments at St Andrew's lead to the conclusion that whole populations of cells may respond to a generalised image such as a face, whereas particular cells will automatically react to familiar faces. Groups of cells in the monkey's brain respond to the directions of the movement of humans in the laboratory, such as reaching for objects, tearing a piece of paper, turning around, leaving the room.

The responses are very particular. An empty trolley being pushed out of a room elicits no response whatever, whereas a trolley bearing a person on top results in an immediate burst of cell activity. The necessary condition of the experiment is that the visual stimulus must be in some way relevant to the owner of the brain cells: in this case, the monkey.

The physical mechanism of seeing, the eye and the brain, determines what we see. The mechanism and its processes have clear limitations. They allow us, for instance, to experience visual illusions even though we know perfectly well that we are being tricked.

Richard Gregory explained this phenomenon by distinguishing between perception and conception. Of these two ways of apprehending the world, he compared the first to a small computer of limited intelligence with which we confront our surroundings and which at each instance allows us to survive for a few minutes by responding appropriately to the input from the environment. The more complex conceptual knowledge is applied to longer term strategies but cannot override the constancy of the initial impact of the illusion.



Computer-generated teapot with photograph of a window mapped onto its surface. Produced by Information International, the image involved the collaboration of Joe Spencer, John Whitlow, Martin Newell, Gary Demos, Malcolm Macmillan and Jim Blinn.

even though it makes us aware of the illusion's existence. Another such discrepancy in the mechanism is expressed by our inability to see figure and ground images simultaneously.

When R N Shepard drew a conventional halftone in which the spaces in between were occupied by a series of identical nudes, he demonstrated the impossibility of focusing on both images at once—it was possible either to see the architectural structure or the girls. A more common example of this is a vase whose outline is made of two profiles. Again, one looks at the profiles and the vase in turn, but not simultaneously.

Colin Blakemore showed the inverted face of a woman who appeared to be smiling. When her face was turned the right way up, the smile emerged as an ugly frown. In this instance the brain combined the reading of an inverted face with a shape that would be a smile had the face been the right way up.

Most classic illusions are static and can sometimes be resolved with the introduction of movement. Horace Barlow demonstrated this with a cut-out triangle patterned with random dots which he placed on a background with the same random pattern. The triangle immediately disappeared. However, as soon as it was moved about, it once more emerged as a triangle.

Illusions associated with movement have their own characteristics. Jonathan Miller, while talking about film, dismissed the factors which cohere to create an illusion, such as the spectator's share in supplying links within the discontinuity of shots which move from wide angle to close-up.

Without sound any film appears to consist of staccato interruptions, but even with the accompaniment of sound certain adjustments are necessary to give the final effect of continuity to a discussion on television. As the camera moves from one talking head to another, with an occasional establishing shot which relates the speakers to each other and the setting, the congruence of the eye-line is necessary to convince the viewer that the two heads are actually addressing one another

rather than a third party.

As with language, images have two stages. The equivalent to naming in language is the introduction of a visual element; the equivalent of stringing words in a sentence is the construction of visual sequences. If you generally believe that an image may be worth 1,000 words, several arguments were put forward to the contrary. David Lodge explained how much easier it might be to convince someone that a given character is a beautiful woman if one shows her on film, but how

much more difficult it is to comment on what she is thinking.

Jonathan Miller had always claimed that a verbal description is more evocative visually than a visual image. For instance, "an ungainly figure propelled as if ejected like a bullet—the importance of his mission proclaimed by the shining proboscis twirling with uncontrollable excitement"—is easier to imagine than to depict. Translate this from verbal to visual image and you lose. Description and narrative

in literature follow different sets of rules than they do on film and that is why David Lodge claims that the best novels do not make the best films.

A similar distance may be felt between dance notation and the dance itself. Monica Parker described the system of Benesh dance movement notation which allows any dance to be repeated in the smallest detail. The notation or choreologist records every position and reads it back to the dancers as and when the dance is to be staged again. It is a laborious process. A single

minute of performance requires two hours of rehearsal and hours of notation. Of all systems of pictorial notation this is one of the most exact.

The converse is true of diagrams showing things as they are, such as the harness on the water. They may be familiar in principle, but Gombrecht did not find pictures as helpful as they need to be to enable him to be confident that he could be as tapes at his side. Of all diagrams presented by

airlines, only those of Lufthansa seemed to him to be adequate in detail and not unduly frightening in their implications.

In general, pictorial instruction is rather outdated and comparatively rare, with the notable exception of some American department stores where every tie is still sold with a sheet of diagrams showing how to tie a Windsor knot or a bow. The problem of pictorial instruction is where description must end and instruction begin. Gombrecht thought that the great classic of the genre still

remains the Diderot encyclopedia.

How little visual information is enough? To establish a television system through which the deaf can communicate with each other in sign language, Don Pearson was limited in the degree of resolution available to him by transmitting the signals down a telephone cable. In the course of his experiments, he developed a system of producing computer-generated ear-earrings which can capture the general features of a face, in line with black in-fill, as adequately

as any human cartoonist. A camera scans the face, making an electronic representation of valleys on the surface whose luminance is then translated into lines.

A significant way in which these computer-generated cartoons differ from those by artists is that they are much more difficult to decipher when the image is reversed with white lines on black background. Although this particular scanning system may surpass in its efficiency the cartoonists' processes, it appears not to produce

an image that will survive distortion equally.

Computers still have surprises to offer. Daniel Dennett thought that in the same way the telescope and the microscope have extended our possibilities to see, the computer has extended our possibilities to think. Slowing down its processes so that each step of its operations is visible on the screen allows one to watch the logical sequence of steps in every transaction. Visually these are the by-products of the process itself.

The two major areas of computer images are: computer graphics—making images using the computer; the computer vision—mimicking what the eye does when it sees images. The first involves manipulation of visual data either generated or processed through the computer. The second involves an interpretation of visual stimuli from the external world.

Modelling sequences of events with computer graphics and animating them can produce surprises. Andrew Witkin has generated images which are endowed with the properties of the materials they simulate: rubber, wire, clay etc. By applying forces to these simulated materials one can see how they would behave within the imposed constraints. Given that the materials and the rules are defined, it is still not always possible to predict how a series of elements will combine in the process of construction of a tower.

The architect, John Lansdown, who has been the moving spirit behind the development of computer graphics in England since the early 60s, discussed two principal methods: drawing pictures into the computer with a light pen, and modelling the image and asking the computer to produce different views of it or variations on it.

One of the easiest ways to achieve spectacular results is to feed a photographed image into the computer and then to manipulate it in various ways. The range of interesting effects which can be applied to images includes slicing, textures, shadows, selective focus, and motion blurring. Technically the system is still in its infancy. Simple digital images have noticeably jagged edges since the requisite resolution to obviate them is not available. Occasionally new leaps are made, such as the Mandelbrot, thanks to which it is possible to generate very convincing irregular landscapes, mountain ranges and plants. The cost of computer graphics at £1,000 per second makes it the most expensive way of making animated sequences. At the moment a single image takes about one hour to create and 25 images per second are needed for animation.

As in all design, computer graphics follow fashion as far as technology allows. According to Lansdown there has been a recent increase in textures and aerial perspective views, although the most common image, which everyone does at least once, remains a teapot. Faces are rarely seen because they are difficult to model. Of the new developments, the improved quality of the simulated photograph is the most significant. One inevitable consequence is that the photograph will lose its status as evidence in court. The method of latching photographs by computer has been perfected to such an extent that faked photographs are readily accessible.

Counterfeit photographs and visibly exaggerated emotions both belong to the visual world of effects. This also includes the repertoire of behaviour displayed by animals. Visual signs of threats and exaggerations in the animal world would do credit to any politician. If the growling and the grimacing of one animal elicits flight in another, the first one soon learns that it might be enough to bare the teeth soundlessly. John Krebs argued that in due course the threatened animal becomes "sales resistant" and the exaggeratedly aggressive behaviour of the first one starts once again.

Sometimes the display can be very approximate, as in the case of the six-eyed jumping spider. With a series of drawn geometric shapes, Michael Land elicited a purposeful response from the spider, which immediately tried to devour them. Another shape which consisted of a circle with six legs provoked the spider to proceed to mate with it.

Humans are also subject to being taken in by approximate displays. Peter Bull discussed the format of gesture and structure in a rhetorical speech designed to elicit well-timed applause.

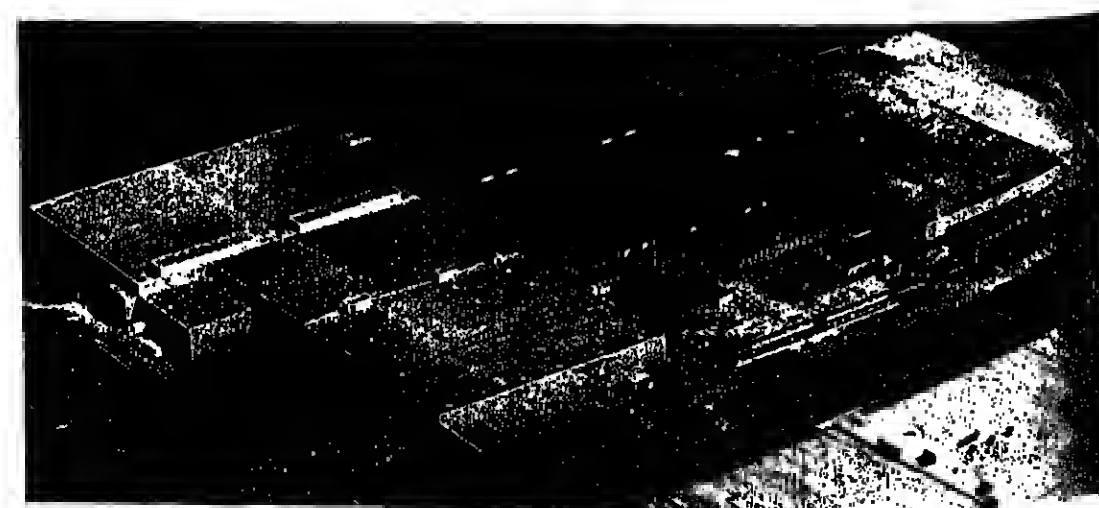
The most paradoxical images are those whose subjects do not exist, even though we have no problems in making their representations. In this context Nelson Goodman referred to centaurs and unicorns. Centaurs exist in the real world as images but not as subjects, as indeed does Don Quixote and Alice, whose portraits are legion. The least concrete of all the images in the world, Goodman claims, are the pictures in the mind. They are, as he put it: "invisible, intangible, and altogether insensible". But paradoxes do not end there. After all, a picture of a picture of nothing is still a picture of something, and a picture of a picture of a horse is not a horse.

To date no research has been reported that deals with individual cells in the brain whose task is to populate our world with concepts of the imagination. Their reality may be paradoxical and intangible, but it would be difficult to find a human being who would put their existence into doubt.

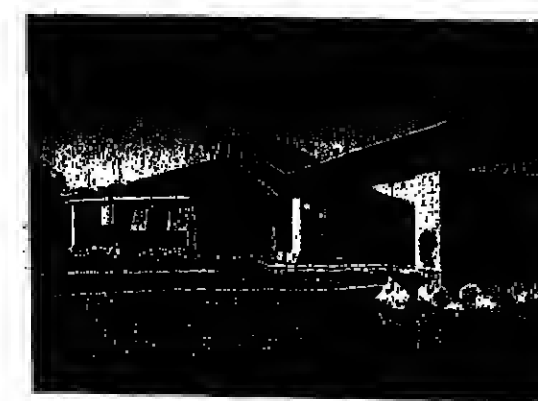


This table-top setting appears in film in which the viewer floats around and through the objects. Jim Blinn, Frank Crow and Gary Demos are three of the 10 participants involved. These and other teapots were discussed by John Lansdown in his talk on computer graphics.

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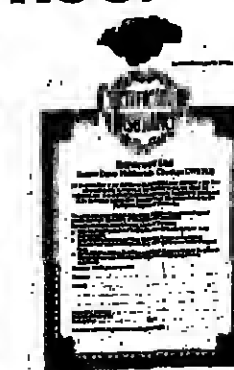
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Aalto's Finlandia hall, 1962-1971.

AFTER AALTO

Brian Walters reports from Helsinki on a recent competition for the development of part of the inner city.

AS long ago as 1916, a plan for Greater Helsinki was proposed by Eliel Saarinen, which called for filling in a bay that extends into the heart of the city. Much has happened since, but the wedge of land which even then had the splendid city railway terminus at its head remains the subject of much debate.

Finland's capital is a rela-

tively young city, but it is rapidly expanding, both along the Baltic coast, and inland. Many elegant buildings remain to recall the time when the country was under Czarist domination, but its most famous recent construction is the Finlandia congress centre and concert hall designed by Alvar Aalto.

Completed in 1975, the Finlandia hall has been maintained in excellent condition. It lies within the Kamppi-Töölönlahti quarter, which includes the "wedge" mentioned previously. Most photographs show the Finlandia hall with its facade reflected in the tranquil waters of the bay — none show the railway freight yard which actually faces the building.

This was to have been removed many years ago, but it remains an eyesore which all agree must go, although there is less agreement as to what should take its place. To stimulate some action in the matter, the city recently held a competition which was open to architects throughout Scandinavia.

In the event there was no outright winner. The selection committee, with the mayor as its chairman, finally selected three equal winners, with some other entries receiving commendations of one sort or another. Entrants had been asked to put forward ideas for the area, which could fit in with the overall city development plan, and it is interesting to note that several followed some of the ideas proposed by Saarinen 70 years ago.

Clearly the presence of the Finlandia building soon to share the waterside park with a new opera house, was a major influence on all participants in the competition. But other important factors had to be considered: the railway station, the nearby bus station and the fact that one major road for the north follows the curved one side of the wedge.

Saarinen's plan called for a long, broad avenue over the bay area, with blocks of buildings leading off on both sides. Aalto wanted a square to take the place of the railway yard. Evidently most of the winners have appreciated the advantages of retaining the "wedge" as an open parkland leading to the heart of the city. Some have agreed with Saarinen's proposal to fill in the bay with both parkland and a new building, but others have proposed that new buildings could feature the plan.

One of the winning entries, "Knuutis Unekkiä" proposed by Ilmari Vuolteenaho and Karl W. Kärki, calls for the bay to be enlarged, with a series of

buildings at the water's edge opposite the Finlandia site, and a major road on the east side of the bay cutting the city — a relic of the 1916 plan. Although visually attractive, this does pose some technical problems as the rock is in poor condition and would be difficult to seal against water seepage.

Jan Söderlund's "Avoin Sydän I" features a series of low buildings opening out northwards from the main railway station; an hotel, offices, a museum and a theatre not detracting from the elegant lines of the Finlandia building.

"Pro Finlandia I", submitted by Arto Sipinen, also largely retains the wedge as a park area, but the plan includes an interesting piazza which would extend from the present parliament building, to a new structure of equal height to the east. The rather sombre parliament building might be considered by some to be too imposing. Indeed its architect, J S Siren, originally proposed that it should be one of a series of buildings of equal height.

None of the prizewinners have proposed large buildings near the parliament, but some have attempted to provide gardens or other features to improve its approach; some (including the "Pro Finlandia I" plan) would place the main road which runs by the Parliament underground.

Sipinen's plan also includes an underground bus station on the site of the present facility; a nearby railway cutting would be buried, however, to provide more building sites. It is unlikely that any major steps will be taken to implement any of the ideas arising from this competition in the near future. The present schedule calls for the ideas from each of the three prizewinners to be incorporated into a new development plan which will be outlined next year. The development of the wedge is complicated by the fact that some of the land (the railway yard for example) is owned by the government. So it will be necessary to get the approval of several authorities before extensive work can begin.

For further information consult your college librarian.

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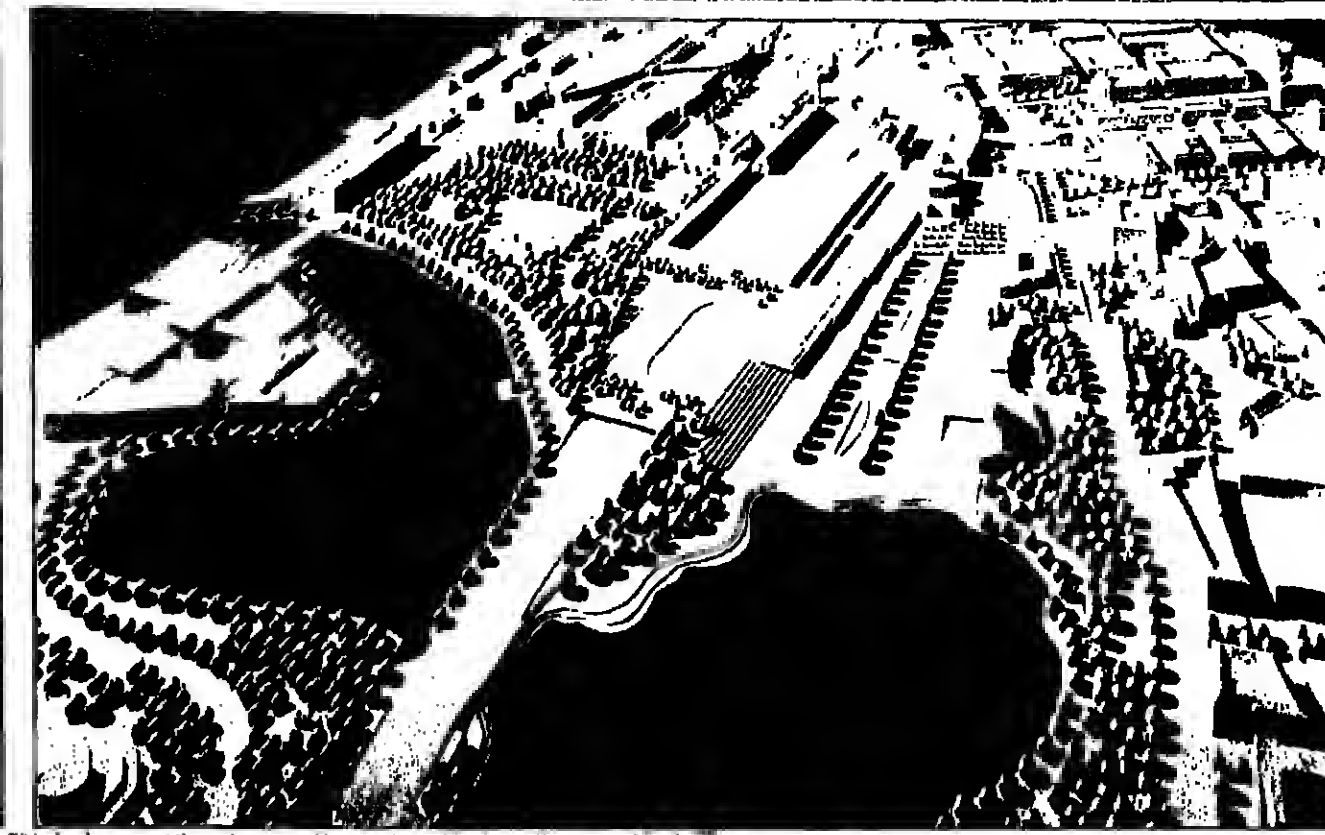
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For further information contact:
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Prizewinner Arto Sipinen's plan includes an underground bus station (foreground) and a piazza. The submission of Jan Söderlund opens out the wedge to provide extensive parkland as well as new public buildings.

Architectural & Construction BOOKSHOP

The bookshop is available through the Architectural & Construction Bookshop, 22, Abchurch Lane, London EC4N 3DF, and is provided by Morgan-Grampian Construction Press.

1. The Fireplace Book by Rosana McDermott. A practical guide, encompassing both functional and aesthetic considerations, to fireplace design, maintenance and restoration. Price £10.95.
2. Building Regulations Explained and Illustrated (Seventh edition) by Powell-Smith and Billington. Covers the new 1985 Regulations for all building types for England and Wales, with extensive illustrations and references to regulations and Approved Documents. Price £14.50 (paperback).
3. Hotel Planning and Design a guide for architects, interior designers and hotel executives by Walter A. Ruten and Richard H. Fennel. Identifies the key opportunities in this field and analyses the planning and design criteria for nearly 30 different types. Specialised and up-to-date guidance unavailable elsewhere. Price £49.50.
4. The Classical Orders of Architecture by Robert Chitham. Immaculate line drawings and informative captions explaining the origins, development and practical usage of all the classical architectural elements. Invaluable to designers and fascinating for their clients. Price £16.45.
5. The Architect's Guide to Fee Negotiations by Ray Moxley. Competitive fee tendering has now become a reality of architectural practice. This book sets out all the items that have to be negotiated at each stage. Price £18.65.
6. Construction Project Management using Small Computers by Glen Peters. As well as explaining the principles of project management, this book explains how they can be applied on small computers and which particular systems are most suitable. Price £15.35.
7. Legal and Contractual Procedures for Architects by Bob Greenstreet. New edition of this popular reference work which gives concise and simple guidance through the legal and contractual maze of everyday architectural practice. Price £9.85.
8. Design Liability in the Construction Industry (Second edition) by D. L. Cornes. Includes extensive new material on the law of professional negligence including the latest cases after Pirelli. Price £19.00.
9. AJ Introduction and Complete Index to the 1985 Building Regulations. Briefly explains what are the main changes; how to find all the references to any subject; a checklist of which British Standards are invoked by each section plus unique detailed subject index to every topic covered. Price £8.25.
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11. Construction Law Reports. A new series reporting decisions of the Official Referees Court which are binding on the whole industry. All members of the construction team must keep up to date with these decisions. Available as a subscription: 3 volumes a year £45.00.
12. Arch-ites Postcards 2 sets of 8 colour postcards by Louis Hellman. Set 1: Wright, Le Corbusier (twice), Aalto, Foster, Graves, Mies and Stirling. Set 2: Gaudi, Mackintosh, Ralph Erskine, Bruce Goff, Charles Moore, Leon Krier, Terry Farrell and Philip Johnson. Price: Set 1: £2.50; Set 2: £2.50.
13. Architects' Data by Ernst Neufert. Available for the first time in paperback, this well-known design guide offers over 400 pages of building types. Price £19.45.
14. Handbook for Clerk of Works (Third Edition) by C.I.C. Department of Architecture and Civic Design. This Third Edition provides step-by-step guidance on the carrying out of all the duties of the Clerk of Works. Price £12.00.

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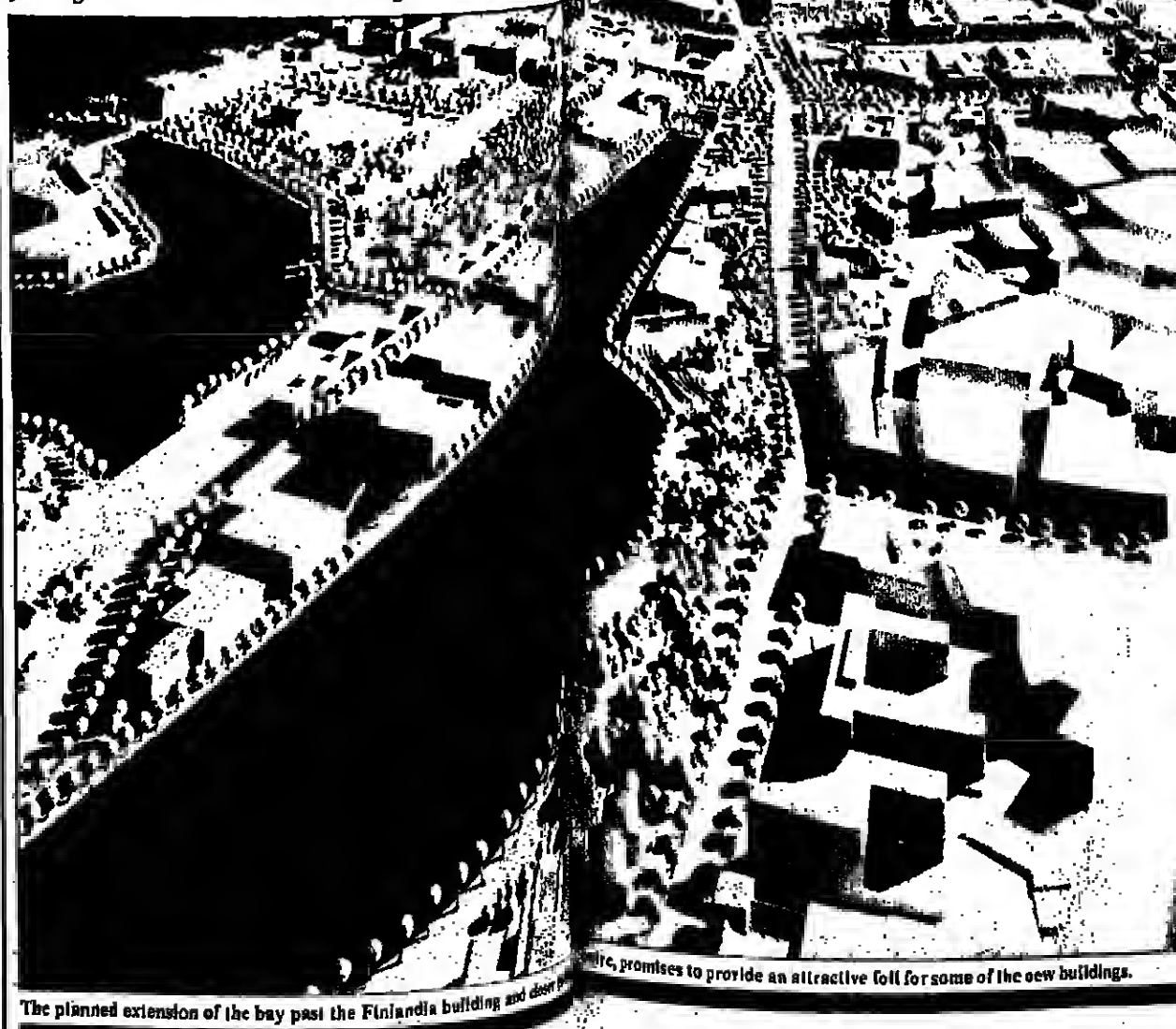
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The planned extension of the bay past the Finlandia building and other

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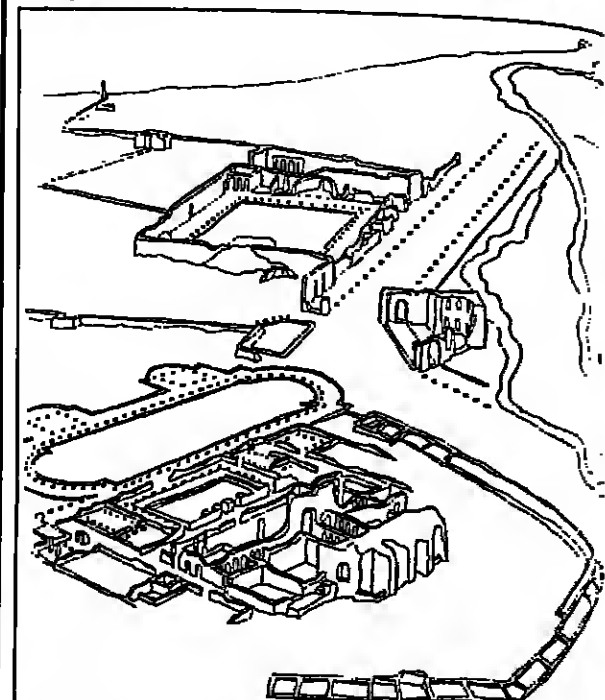
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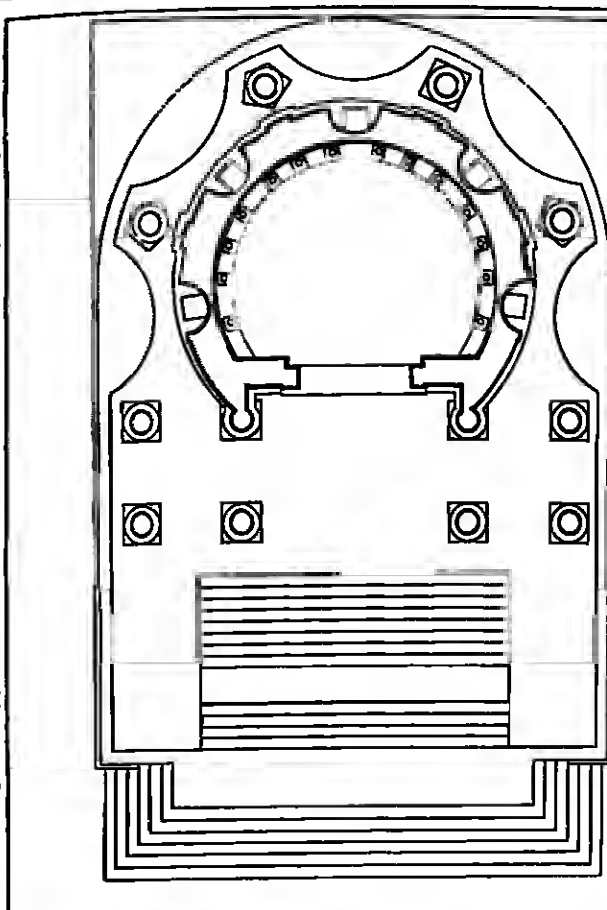
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Roman columns

The long-awaited second volume of William I. MacDonald's seminal and penetrating study, *The Architecture of the Roman Empire* (Yale University Press, £27.50) has just been published. The author looks afresh at the accepted models and longer accepted, well-known projects in provide one of the most useful studies of the town planning for many years.



Lepcis Magna, sketch of the central district.



Temple of Venus at Baalbek, probably 3rd century AD.

Myths and silo dreams

By Brian Hatton

A concrete Atlantis - US industrial building and European Modern architecture, by Peter Reyner Banham (MIT Press, £16.50).

EVER since his *Theory and design in the first machine age*, Reyner Banham has been telling how, in the modern period of rapid technical innovation, architects have turned to advanced industrial and engineering models in order to derive and ratify radical ideas about form and society.

But while doing so they have repeatedly misunderstood the practical motivations and methods of their mentors, mistaking symbol for substance, and by the time the architects have assimilated these models to their own platonic culture of the "timeless laws of form", the engineers and industrialists have usually moved on to new technologies and novel shapes.

Architecture, in Banham's view, has become a transitional phenomenon between innovation and obsolescence, and if architects are going to continue to build in the real world they will have to run hard to keep up with the technologists. This attitude has provided a theoretical (or at least rhetorical) support to the generation of hi-tech designers who have risen to prominence on the lightweight boosters of Buckminster Fuller and the aerospace programme.

But times move on, and even the epochal theme of innovation itself has become hoary, while obsolescence - what a recent book called "dead tech" - acquires its own charms. Banham has proved amenable to these charms, and his last book, *Scenes from American deserts*, found him wandering around the wildernesses and wastes beyond civilisation's progressive edge with as much nostalgia

as anticipation.

His new book resumes these themes, including the barely suppressed nostalgia he finds in sites amid the made wildernesses of American decaying industrial cities. Among their deserted mills and abandoned silos he discovers poignant ruins of a lost future, the "concrete Atlantis" of a world whose utopian promise was more a creature of the imaginations of European Modernists than of the practical businessmen and engineers who built them.

As a European settled in America, Banham is sensitive to both the myth and the reality of these heroic structures of American industry whose photographic image (and this was the first time in history that a new architectural idea had been propagated by means of photography) so inspired European architects in the 1913 *Werkbund Almanach*, Corbusier's *Vers l'Architecture*, and Mies van der Rohe's *Sil' l'Epoka*. Realising that these concrete influences have been taken for granted by Modernist historians, Banham sets out to trace both the myth and the reality of the concrete fact and to analyse its appeal and diffusion of a mythic image.

Yet this is very much a personal account, and its association lies as much in Banham's lively and occasionally poetic response and experience among sometimes dangerously inaccessible monuments of industrial archeology as in the documentary history as in the theoretical analyses.

Banham claims three experiences inspired the book: first, that of living in Buffalo, the veritable Rome of North American industry, whose vast elevators constitute one of the two building types investigated here. Secondly, that of working in architecture in a Buffalo building which was a classic example of a "daylight factory", a concrete-framed structure that forms Banham's other dominant type here. The third experience was his encounter on Channel Row, California, with an industrial ruin that embodied the "platonic essence" of these kinds: the skeletal, extraneous and endless grid of the concrete frame, and the closed volumetric masses of the cylindrical silo.

Here it seemed, was the aboriginal Ur-model ("ore" in English) for the structural dialectic of Corbusier's new order of architecture: the "Apollonian" orthogonal grid of point supports, and the "Dionysian" dance among them of the plastic, curving wall of the free plan. Except, of course, that the curving walls of the elevators themselves were anything but "Dionysian" or "free". Here was one of those points where Corbusier cheated and tried to have it both ways; for it was his principal claim in his *Reminders to architects* (which he illustrated with elevator photographs) that "the American engineers overwhelm with their calculations our existing architecture".

With the surefootedness of a seasoned guide (except where he steps through the rotting timbers of a remote elevator wharf and nearly breaks a leg), Banham takes us on a tour among the backwoods and byways of industrial America which were in fact the heartlands of a technical progress that, Banham claims, has been virtually overlooked by metropolitan architectural historians.

Here we encounter Ernest Ransome, developer of the concrete-framed factory, Lockwood & Green, authors of the superb Buffalo Larkin RST building - 12 storeys of consummate concrete detailing and long trains on the four parallel tracks that run through its ground level. We re-examine the remains of Ford's Old Shop by Albert Kahn, and wander among the heroic works of elevator pioneers such as Max Toltz, steel forerunner, and Frank Peavey and Charles Haglin, who invented the classic concrete silo in Minneapolis.

Amid all this, Banham does not withhold from his personal accounts an elegiac note, as of encountering the awesome ruins of lost civilisation, redolent in the very names of the Buffalo hulks - Connecting & Terminal, Washburn-Crosby, Kellogg, Cargill Electric, Cargill Superior, Lake & Rail, marine A, and, most stupendous of them all, Concrete Central. Of the much photographed and published Washburn-Crosby the fulfillment, Mendelssohn wrote home from his visit in 1927 to Buffalo, of all his "silo dreams". Banham makes the remarkable claim that it may well be the most internationally

influential work of building ever erected in the New World.

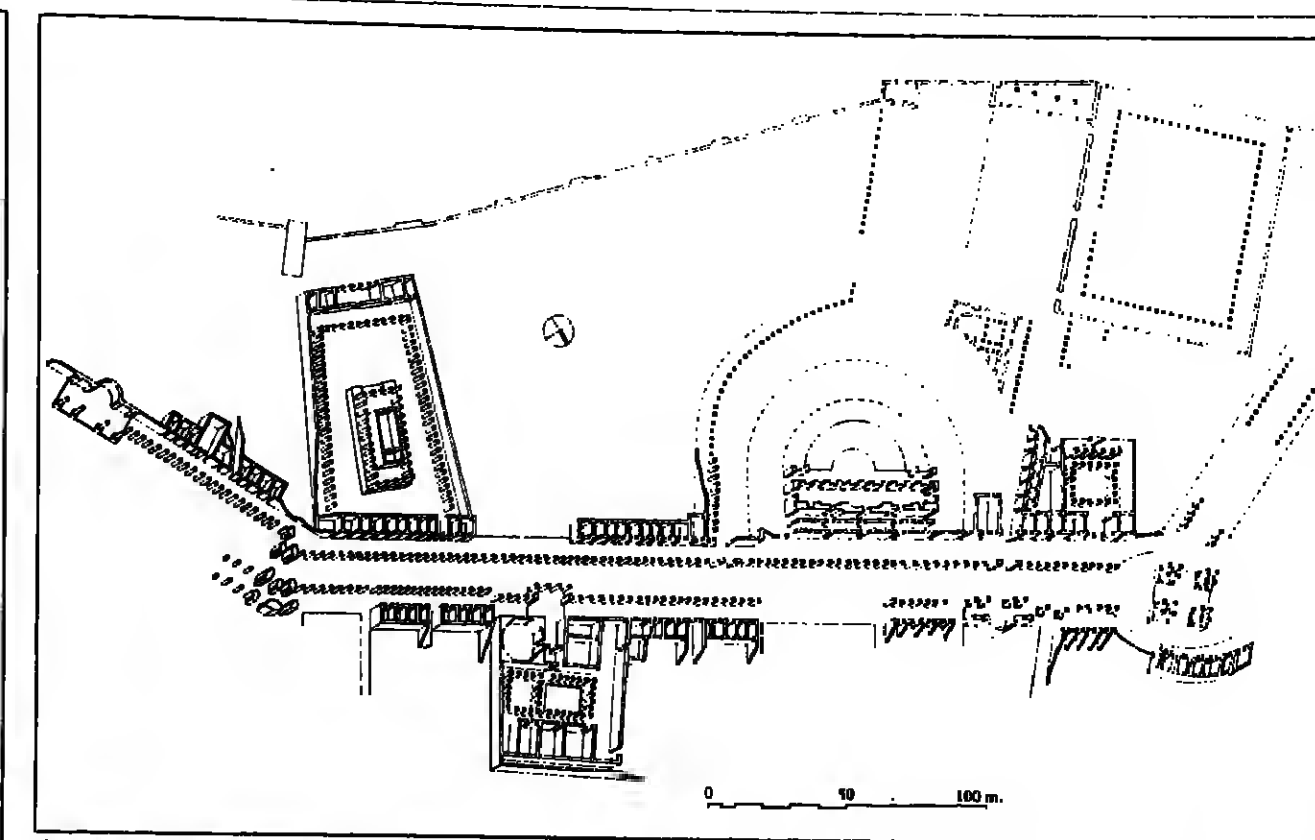
In examining this influence, Banham explores two gaps in the Modern Movement's ideological foundations. First, the gap between the reality of the American industrial building, which was certainly rational, but only in a conservative, practical, and empirical way, and the myth of the super-rational engineer created by the European Modernists at long range and by way of grainy photographs. In this myth the distant silos and factories were projected as arising from the native and natural genius of a new kind of noble savage.

Here, following the theories of Wilhelm Worringer, the new spirit of artless but absolute calculation coincided, like a meeting of opposite extremes, with that of primitive man's urge to abstraction, the exemplar of which was the Egyptian pyramid. Worringer wrote in his book on Egyptian art: "What you regard as the ultimate metaphysical form is merely the Americanism which otherwise you so much despise."

The second gap was between these mythic claims for absolute rationality and the modernists' actual buildings. Banham revisits the Fagus factory and the Fiat Lingotto car plant to compare them with the American examples. At Fagus, he finds all kinds of non-utilitarian architectural sophistications that Ransome would never have dreamt of including in the factory he designed for United Shoe Machinery Company at Beverly, Massachusetts, which was the company that leased the patents to Karl Benscheidt for Fagus, and which he visited before hiring Gropius.

Finally, at Lingotto, that ultimate expression of Americanism, Banham tries to settle the conflict between his own emotional reactions to a structure that, while absolutely stunning as a symbol and vision of a new cultural order - a vision to which Banham gives full scope in finishing his book with a translation of Edoardo Persico's intoxicating and poetic encomium of the factory of 1927 - and his reflection that, by the standards of most advanced American factories of the time, such as the widespread single-storey sheds adopted by Kahn at Ford's new River Rouge plant, the Lingotto plant was, on the day of its opening, obsolete.

Books



Axonometric view of the principal street at Palmyra.

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A black and white photograph of a large, dark, rectangular structure, possibly a piece of industrial equipment or a large container. The structure is covered in a dark material, possibly a tarp or a heavy cloth. A sign is visible on the side of the structure, which reads "TAYLOR WOODROW" and "1944". The background is dark and indistinct.

THE BASIC CHECK ON BUILDING TRADES,
By Henry Haverstock
A STEEL ERECTOR
The building designer's limited knowledge of the finer points of structural steelwork restricts his or her involvement with this trade. Henry finds that there are aspects that need attention to win overall control of the building process.

Steel erectors were traditionally considered as semi-skilled workers and usually learnt their job through being taken on as an "improver," by a firm and by being given training on the job. Training courses are approved by the Engineering Industry Training Board (EITB). Many of the tracked-down one training centre (that was part of a tracked-down firm), which ran formal courses for steel erectors — the National Engineering Training Association in Stockton-on-Tees, its trainees come not only from all over the UK but from other countries as well. It is divided into a three-week basic training, followed by a period with a specialist firm of at least six months stieework, followed by a further two weeks back at the centre.

A technique that is being used increasingly is corrugated steel sheathing fixed to beams as permanent formwork for concrete floors (pictured).

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3. CLEANING USED TO FIX STEELWORK

Steel erecting should not take place in high winds, heavy rain, or when there is ice or snow, or poor visibility. Welding should not take place when there is ice or snow. (If welding is taking place during very cold weather, special welding rods may be necessary.)

Framework erection should take place in daylight. If artificial lighting is used there are stringent requirements on what needs to be lit in BS 5631: 1978.

It is recognised that it is generally impracticable for steel erectors to wear safety harnesses, but they should wear special footwear, such as a "tiger shoe", which comes half-way up the calf, has a steel toe-cap and non-slip soles. Hard hats should also be worn.

ACCURACY

There is only a 2mm tolerance between a hole and the hole. If mistakes are made and it is found that steelwork delivered to site does not fit, then (to a maximum of three recommendations and signs of relief) it is usually possible for modifications to be agreed and undertaken on site, for example by cutting bits off or welding other bits on.

CHECKPOINTS

On most projects the details will be worked out by either the steel fabricator or by the project's structural engineer.

Steel erection should not take place in high winds, heavy rain, or within three hours of snow or poor visibility. Welding should not take place when there is ice or snow. (If welding is taking place during very cold weather, special welding rods may be necessary.) Framework erection should take place in daylight. If artificial lighting is used there are stringent requirements on what needs to be lit in BS 5531 : 1978.

It is recognised that it is generally impracticable for steel erectors to wear safety harnesses, but they should wear special footwear, such as the "tiger shoe", which comes half-way up the calf, has a light leopard and non-slip soles. Hard hats should also be worn.

REFERENCES

BS 5950 : Part 2, Specification for materials, fabrication and erection: hot rolled sections.
BS 5951, Code of practice for safety in erecting structural frames.
BS CP 3010, Code of practice for the safe use of cranes.
Health & Safety Executive Guidance Note 28, Safety erection of structures.

High-level brackets supporting beams should be permanently attached to the wall or ceiling by cementation, and either hidden in a wall or accepted as a decorative feature. If temporary supports are needed, they should be painted a distinctive and identifiable colour so that they are the only ones to be removed.)

Whenever attention to an existing structure is involved, specify that the fabricator is responsible for checking all existing measurements.

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Dateline

Times for consideration must be received 10 days prior to publication

This week

Monday — Wednesday
Recent developments in fire detection and suppression, seminar organised by UnivEd.
Venue: University of Edinburgh.
Details: 031-667 1011 (ext 6742).

Tuesday
Approaches to the new museum, lecture by Colin Amery, architectural correspondent for *The Financial Times*.
Venue: Reynolds Room, Royal Academy of Arts, Burlington House, Piccadilly, London W1.
Details: RAA, 01-734 9052.

Tuesday
Desk-top micro in energy conservation, a "hands-on" course for technical officers in local authorities.

Venue: Computer Centre, Polytechnic of the South Bank, Borough Road, London SE1 0AA. Cost: £55 except to members of the local authority energy service who can deduct 25 per cent.
Details: Centre for Energy Studies, South Bank Polytechnic, 01-928 8989.

Tuesday
Aerial city: envered townships in cold climates, lecture by Derek Croome.



Until November 20 Travels in Graham Greene country. Venue: Francis Kyle Gallery, 9 Maddox Street, London W1R 9LE. Open 10am to 6pm weekdays, Saturday 11am to 5pm. Details: 01-499 6870.

Venue: The Huntington Centre, The Vineyards, The Pavilion, Both BA1 5NA, 6.15-8pm.
Cost: Admission £2, concessions £1.
Details: (0225) 333895.

Tuesday
Promote your practice through print, a one-day conference on graphics and reprographic techniques.

Venue: RIBA, 66 Portland Place, London W1.
Details: RIBA, 01-580 5533.

Tuesday
Professional indemnity and liability, practice evening organised by the Glasgow Institute of Architects.
Venue: Royal Scottish Automobile Club, Blythswood Square, Glasgow. 5.30 for 6pm.
Cost: £1.

Details: M. Pigott, 041-332 7030.

Wednesday
Materials in buildings, a meeting organised by the Materials Science Committee of the Institute of Metals.
Venue: Bristol Polytechnic, Bristol.
Details: Juliet Upton, 01-839 4071.

Wednesday
London's underground upgraded, lunchtime seminar organised by DIA. Speaker is Mike Stollery.
Venue: Griffin Rooms, 49 Pelham Street, London SW7. 12.15pm.
Details: Neil Chamberlain, 01-940 4925.

Wednesday
Quality assurance — the implications for health & safety at work, seminar organised by the CIBSE Lighting Division.
Cost: £15 plus VAT for CIBSE members, £20 for non-members.
Details: CIBSE Conference Department, 01-675 5211.

Wednesday
De-suburbanisation, lecture by John Burrell of Burrell Foley Associates.
Venue: The Polytechnic of Central London, Marylebone Road, London W1. 6.15pm.
Details: Len Harris or Lawrence Revill, 01-225 1234 (ext 3270 or 3274).

Thursday
Expert systems for construction and services engineering, seminar organised by the Construction Industry Computing Association and BSRIA Computer Centre.
Venue: Conference Suite, Isden Powell House, Kensington, London.
Details: CICA, Guilford Place, Cambridge CB2 3QQ.

Thursday
The hand that draws, lecture by Alan Phillips.
Venue: White Box lecture theatre, School of Architecture, The Centre, Notte Street, Plymouth, Devon PL4 2AR.
Details: (0752) 264645.

Thursday
Lecture by Peter Rlee of Ove Arup & Partners.
Venue: Meeting room at the Linnean Society, Burlington House, Piccadilly, London W1.
Cost: £1.50, concessions £1.
Details: RAA 01-734 9052.

Friday
The conservation of medieval church monuments, seminar organised by the University of Bristol.
Venue: Burwalls House, Leigh Woods, Bristol.
Cost: £12.95.
Details: Bernard Lane, Department of Extra-Mural Studies, (0272) 303620.

Details: 01-839 8000.

Until November 20
Metalwork and jewellery, by Alistair McCallum.
Venue: Crafts Council shop at Victoria & Albert Museum, South Kensington, London SW7.
Details: 01-589 5070.

Until November 28
Site visits: images of the building process, exhibition of the drawings and watercolours by David and Michael, Tabitha Salma.
Venue: The Building Centre Gallery, 26 Store Street, London WC1E 7HT.
Details: Stephen Gash, 01-701 1411.

Until November 29
Exhibition of recent paintings by Marti McGinn.
Venue: Curwen Gallery, 4 Windmill Street, Charlotte Street, London W1. Tuesday-Friday 10am-6pm, Saturday 11am-4pm. Closed Sundays and Monday.
Details: Curwen Gallery, 01-439 1459.

Until November 29
Soekalek, exhibition of his paintings, drawings, watercolours, engravings and tapestries.
Venue: Brunton Gallery, Brunton, Somerset.
Details: Brunton Gallery (046) 812205.

Until January 1
The Mobil design award for best design, exhibition of entries.
Venue: The Design Centre, 28 Haymarket, London SW1.
Mondays and Tuesdays 10am-6pm, Wednesdays-Saturdays 10am-8pm, Sundays 11am-5pm.
Details: 01-839 8000.

Until January 18
Paintings and their context: New Poussin — Venus and Mercury.
Venue: Dulwich Picture Gallery, College Road, London SE21 2AD.
Details: 01-693 5254.

Coming soon

November 17
Quality assurance, one-day seminar organised by the Building Maintenance Cost Information Service of the RICS.
Venue: Royal Institute of Chartered Surveyors, 12 Great George Street, Parliament Square, London SW1.
Cost: £80 per delegate (plus VAT) £70 to subscribing members of RICS.
Details: Lindsay Pallen at BACS, 87 Clarence Street, Kingston-upon-Thames, Surrey KT1 1PE. Tel: 01-546 7555.

Exhibitions

November 10-29
Built-up areas: urban landscapes from the Arts Council collection.
Venue: Atkinson Art Gallery, Southampton.
Details: (0704) 331133.

November 10-25
Waterfront, exhibition of young people's work concerned with the visual relationship between buildings and water.
Venue: RIBA, 66 Portland Place, London W1.
Details: RIBA, 01-580 5533.

November 12-December 3
Timber in architecture, exhibition organised by the Museum of Architecture, Oslo.
Venue: Strathclyde University, Exhibition Gallery, Department of Architecture and Building Science.
Details: Dig Mork Juler, Consul General, 031-226 5701.

November 12-December 19
CAD Microcomputers and design, exhibition.
Venue: Design Centre, 28 Haymarket, London SW1.

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REINDEL & BRANCH
Landscape Architects
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Wokingham, Oxon RG11 9BY
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RK STURDY ASSOCIATES
Landscape Architects/Planners
Middle Copp, Carey, Walsham,
Dorset SP20 7TA
Tel: 01922 722
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YEMRA FIRMA
Landscape Architects
40 Church House
Lord Montgomery Way
Portsmouth PO1 6BH
Tel: 0705 88531
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Landscape Architects
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Bristol BS8 3NG
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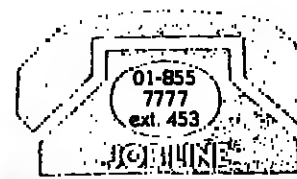
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Salary scale: £13,354-£16,143 pa

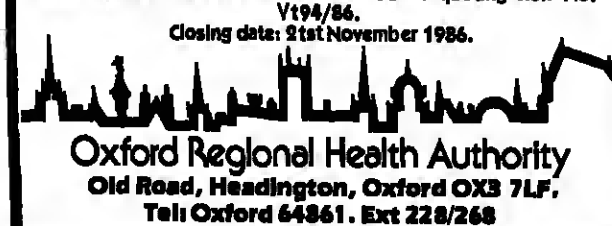
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Closing date: 24th November 1988.



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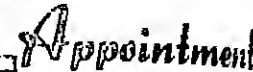
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Hampshire PO1 2LS

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21 Douglas Street
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Department

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* Flexible working hours * Housing considered

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ARCHITECT

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A detailed job description and further information is obtainable from The Personnel Unit, City Offices, Colebrook Street, Winchester SO2 2SL.
Telephone 68188, ext 2131.
Closing date for applications:
28th November 1988.



CITY COUNCIL

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PO2A

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Brent is an Equal Opportunity Employer. Applications are welcome from candidates irrespective of race, nationality, ethnic or national origins, age, marital status or gender and from black and minority ethnic and disabled persons. Job Shareers welcome.

Application forms and job descriptions from the Personnel Division Room 1 Brent Town Hall Annex, Kings Drive, Wembley, Middlesex HA9 6BR, returnable by 8th December 1988. Telephone 01-903 0371 (24 hour Answerphone service). Reference number D/370 must be quoted.

London Borough of
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(grade according to qualifications and experience)
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Applicants should have at least an ONC in building (or equivalent) together with a minimum of 2 years office experience. Above all we are looking for someone willing to learn as the job develops.
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Closing date: 21st November 1986.

Oxford Regional Health Authority
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Tel: Oxford 64861, Ext 226/268

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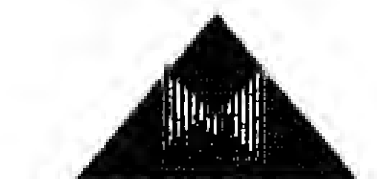
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If you are an ambitious project architect seeking a permanent position with prospects of partnership in a stimulating environment with one of the brightest young practice around, apply in writing with CV.

We are also seeking a architectural assistant (minimum part II qualified).

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required by busy Architects practice in Abingdon, Oxfordshire. Applicants should be quick accurate draughtsmen, fully experienced in the design of roads, sewers and ancillary services for residential, industrial and office development. They should also be experienced in Section 18/38 Agreement procedures, in negotiating with district and service authorities and in working with developers.

Apply in writing to:
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ARCHITECTURAL TECHNICIAN

We require a qualified technician to join our expanding team of designers to work in our multi-disciplinary, design and build organisation on a variety of interesting high quality projects mainly in the Buckinghamshire area.

Good salary and conditions to the discerning candidate who is self-motivating and competent.

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Mr David Parker, RIBA
Architectural Director
Mark Scott Construction Limited
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MALCOLM LOVIBOND & ASSOCIATES

are looking for a

YOUNG ARCHITECT

with ability and enthusiasm to work on a variety of projects in a lively office dedicated to high standards.

Please apply in writing with CV to:
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Wimlow, Cheshire SK9 8EO (0828) 882302

**Senior
Architect**

**Project
Architect**

**Architectural
Technician**

BRISTOL

The Pearce Contracting Group holds a prominent and successful position in the Construction and Development markets throughout the South West of England.

Based at the Head Office in Bristol, the Architects' Department, one of the largest in the area, has several new opportunities for experienced architectural staff. Successful applicants will join teams working on a diverse range of new commercial, industrial and Design and Build contracts.

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Please contact Mrs Allison Linford, Group Personnel Manager.

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Applications to:
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London WC1N 3LG
Tel: 01-405 7401

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01-748 3108
271 King St. W6 9LZ

**Assistant To
Architectural Director**
Housing Developments
Attractive Salary + Car

The opportunity exists for an experienced technician to join a newly formed internal design department of a major housing developer. The company have regionalised their operations and require persons to be responsible for Kent/Sussex or the Hampshire area. At present the company is situated in Kingston but is relocating to Thames Ditton within the next few months.

Candidates should have a proven track record in housing developments, be self motivated and ambitious. He/she should be capable of working in a small team environment and able to contribute to their continued growth.

We have prepared a comprehensive job specification and client profile which we shall be pleased to send to suitably experienced candidates. In the first instance, please phone Alan Donnelly on 01-524 1044 quoting reference 1098A or write in confidence to Trojan Recruitment Services, Forest House, 168-168 Station Road, Chingford, London E4 6AN.

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ARCHITECT

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Please write giving experience and salary required to:-

Anthony Stocken, St. Andrews House
Wilton, Salisbury SP2 0DL

**LONDON BOROUGH OF HARINGEY
TEMPORARY COMMUNITY
BUILDINGS WORKER**

£12,342 - £13,035 Scale 5

For the Selby Road Development Project, Tottenham.
Tottenham School, Selby Road is being converted for use by local community groups. Project support is needed to aid the establishment of projects which meet the needs of women, young people, the elderly, black and minority ethnic communities and people with disabilities as well as local residents. This major development will provide social, recreational, art and sports facilities for the community with all the projects based at the site working towards a common ethos of anti-racism, anti-sexism, equal opportunities and community accountability.
You will make up a team of 3 staff, who will work together for the duration of the building conversion programme, which should be completed in under 18 months. You will manage the buildings day to day and work with the Building Design Service on alterations and repairs. You will need experience of building management, maintenance, supervision of manual staff and consultation work with community groups, in either Local Authority or the voluntary sector.
You will need to demonstrate a clear commitment to anti-racist and anti-sexist policies. We would particularly welcome applications from women and black and minority ethnic communities who are under represented in the area. Candidates will need to demonstrate an understanding of the needs of women, black and minority ethnic communities and people with disabilities in an inner city, multi racial area.

This is an advertisement, previous applicants will be considered.
ADMINISTRATIVE OFFICER
£9,129 - £9,954 Scale 5

Based at 35 Station Road, N.92. As part of the Central Administrative team of Community Services you will provide, with an administrative assistant, administrative support to the Community Buildings Unit, which operates a network of over 40 Community Centres. This post is currently subject to re-organisation proposals which will additionally involve work on a new technology micro-computer application. You will need broad experience of administrative procedures including handling income and petty cash. Also you must be able to demonstrate experience of dealing with the public in either the public, private or voluntary sector, in a multi cultural inner city environment.

Haringey Council is committed to the implementation of equal opportunities policies to ensure that its workforce accurately reflects the multi-racial composition of the communities it serves. It would be helpful if you had experience in minute taking, handling the letting of spaces, building management, issues or experience with Community Centres. We would particularly welcome applications from women and black and minority ethnic communities as they are under represented in the workforce.

This is an advertisement, previous applicants need not re-apply.
Application form and further details from Veronica Holloway or Ann O'neill, Staffing Section, Community Services, 38 Station Road, Wood Green N22 4LE. Tel: 01-851 3000 ext. 2896. Closing date 8th November 1986.

HARINGEY IS AN EQUAL OPPORTUNITY EMPLOYER

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APPOINTMENTS



RIBA Services, a wholly owned subsidiary of the Royal Institute of British Architects, provides a range of information services for architects and specifiers. Owing to the expansion of our loose-leaf technical information services Product Data, we require additional

TECHNICAL WRITER

The ideal applicant will have experience of writing about the building industry and an appropriate technical qualification. Salary will be circa £12K and the company offers a staff bonus scheme and subsidised canteen.

For further details, please contact Dr J Corneli, RIBA Services Limited, 66 Portland Place, London W1N 4AD. Tel: 01-637 8991.

REGIONAL DEVELOPMENT MANAGER

Anchor is one of the country's leading national housing associations specialising in both sheltered housing with Warden support for the elderly and schemes for local authority people.

Based at the Regional Office in Streatham, London SW18, the Regional Development Manager will be responsible to the Regional Director for the implementation and management of the regional development programmes covering site acquisition, initial project and design control, legal negotiations and securing capital funding from both public and private sources. Considerable travel will be involved.

Candidates must have a background and appropriate experience in housing or property development, or a similar field. Essential personal qualities are the ability to initiate and coordinate work with private vendors, local authorities, the Housing Corporation, private Architects and other professional consultants, and getting the best out of development staff.

Salary negotiable within the range £13,489-£20,127 per annum plus £1,489 London weighting per annum. Car provided or allowance paid.

For more detailed information and an application form telephone Mrs. Elaine Wise (01-877 8181), or write to: The Regional Director, Anchor Housing Association, Extra House, Station Approach, Streatham, London SW18 2EL.

Closing date for applications: Friday 21st November, 1986.



NORMAN & DAWBARN

require young qualified

ARCHITECTS & ARCHITECTURAL TECHNICIANS

to join their enthusiastic and busy West Midlands office. The successful Architectural applicant should be aged 28-35, possess good all round abilities and should be skilled in design and presentation.

The successful Technician applicant should be aged 25-35, possess ABAT or BAT or equivalent, have the ability to work within a team and also be sufficiently self motivated to work on small projects by themselves.

Apply in writing with full C.V.:
Norman & Dawbarn
Hornsey House
Gerrard Street
Wolverhampton WV2 4BL

ND

DEVELOPMENT DEPARTMENT

Principal Architect

(Education Projects)

PO3 - £14,381 - £16,800

We are looking for an Architect to play a key role in implementing an extensive education building programme.

The successful candidate should have recent experience and proven ability in the design and supervision of education projects.

The offices are pleasantly situated in Chingford and close to the M26.

Please quote ref N8372.

As an equal opportunity employer in a multi-racial area the Council expects all its employees to have a commitment to furthering its Equal Opportunities Policy.

Application form and Job Description from:
Recruitment Officer, Personnel Department
Town Hall, Walthamstow E17 4JF

Tel. No. 01 531 9889 (24 hour answering service)

Closing date: 28th November 1986

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Applicants are considered for their suitability for the post regardless of disability, sex, race and marital status.



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QUALIFIED ARCHITECT

with several years experience

QUALIFIED ARCHITECTURAL TECHNICIAN

also with several years experience

NEWLY QUALIFIED ARCHITECT

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Please write to me quoting ref AJ with samples of your recent work, an account of your aspirations and capabilities and a CV.

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Tel: 021 233 4474

Architect

Salary up to £13,632

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For further information and an application form please contact:
Chief Personnel Officer, Bromley
Civic Centre, Rochester Avenue,
Bromley BR1 3UH. Tel: 01-290 0324 (24 hour answering service). Ref: C. 27.
Closing date 21st November 1986.



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Uxbridge

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QUALIFIED ARCHITECT — HOUSING, aged 30-40 with proven aptitude, ability and flair in housing and site layout design. The successful applicant will be responsible for handling all stages of private housing development, partnership housing and retirement homes schemes and will be directly responsible to the Chief Architect. Company car provided.

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Please apply in writing to: Personnel Manager, Lovell Group, Lovell House, 818 Chiswick High Road, London W4 5RX, or telephone 01-747 3311 for an application form.

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requires

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Architectural Assistant MSAAT or equivalent and a minimum of three years experience since obtaining these qualifications. A sound knowledge of Construction & Buildings Regulations is also essential.

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Please apply in writing giving full details of experience, qualifications and current salary to Mr. D. J. Lawrence, Personnel Officer, Bass North Ltd., United House, 48 Seymour Grove, Manchester M16 0WD.



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Applications are invited for full-time positions.

Suitable applicants will be experienced architects with a sound knowledge of building design, technology and contract management.

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Bickerdike Allen Partners
Quens Studios
121 Salisbury Road
London NW8 6RG

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Please apply in writing to:

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'Littlegarth'
Baker Street
WEYBRIDGE
Surrey
Telephone: Weybridge 58429

Brent Development Architects

With a large and varied programme of Capital Projects, Brent Development is a significant partner of the private sector. As a result our Consultant Liaison Team for Housing Projects play an important role in the organisation: establishing briefs, commissioning work and monitoring its successful progress. Due to recent promotions, applications are now sought for two posts within the team:

CONSULTANT LIAISON OFFICER

(Architect/Surveyor — PO1B)

£12,585-£13,883 p.a./plus £1,183 L.W. and supplements

As head of the Consultant Liaison Team for Housing Projects, you should be a suitably qualified and experienced Architect or Surveyor, from either the public or private sector, must be technically competent in housing rehabilitation work and capable of dealing directly at Partner level in the private practice commissioning, methodical, thorough administration is a top requisite for this important function. Ref: D/880

ARCHITECTURAL ASSISTANT — SC6

£9,813-£10,184 p.a./plus £1,183 L.W. and supplements

An Architect or Surveyor with suitable experience is required to assist the Consultant Liaison Officer in Consultant Liaison work. Applicants must be well versed in housing rehabilitation practice and be interested in the predominantly administrative aspects of this type of work. Ref: D/802

Brent is an Equal Opportunity Employer. Applications are welcome from candidates irrespective of race, nationality, ethnic or national origins, age, marital status and gender and from lesbians and gay men and disabled persons. Job offers are welcome.

Application forms and job descriptions from the Personnel Division Room, 1 Brent Town Hall Avenue, Kings Cross, Wembley, Middlesex HA9 8BR, returnable 31st November 1986, telephone 01-803 0371 (24 hour Ansafone service). Reference numbers must be quoted.

London Borough of
BRENT

APPOINTMENTS

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Due to continued expansion and promotion, one of the largest architectural partnerships in the U.K. are appointing additional Project Planners and Programmers. This multi-disciplined practice has a workload equally balanced between public and private sectors and across the full spectrum of development and re-development contracts, including Shopping Centres, Hospitals, Commercial premises and Housing. Candidates will need to have an in-depth knowledge of the building industry gained in one of the associated professions or through a related Institute of Management course. Ideally, you will be a graduate 28 to 35, strongly motivated with the ability to work to very tight deadlines.

The appointments call for an organised but innovative approach and provide a great deal of latitude, within the broad partnership procedural guidelines. Projects will range in individual value to in excess of £10 million.

Based in London, this is an opportunity to join a highly renowned organisation which is structured to enable career potential to be recognised and rewarded. Salary is negotiable in accordance with age and experience, and other fringe benefits are offered.

Applications should be sent with CV to Charles Earp of Cripps, Sears & Associates Limited, Personnel Management Consultants, International Buildings, 71 Kingsway, London WC2B 6ST. Tel: 01-404 8701.

Cripps, Sears

ARCHITECTS

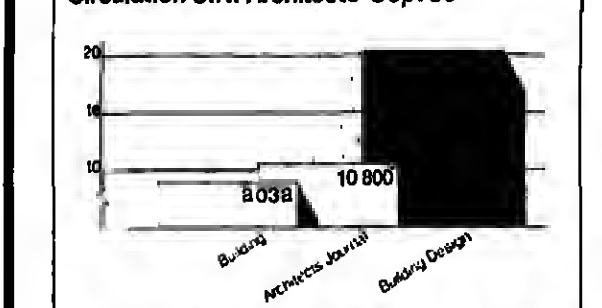
Applications are invited from Architects who would like to play a major role in the development and expansion of a City practice, where a varied programme of commercial and industrial projects are undertaken. Salaries are excellent, to match the importance of these positions.

Please phone or send cv to:
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01-493 6241 (AGV)

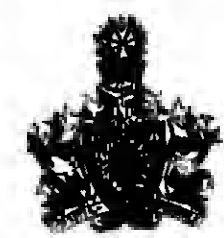
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required to join existing team producing house layout and house design for residential development company. Applicants must possess imaginative design ability to produce high quality housing schemes. Experience in planning procedures and the building regulations essential to negotiate with local authority departments to achieve successful schemes.

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Please write with C.V. to:

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Charles Church House, Knoll Road

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Applications, forms and job descriptions from the City Planning Officer, Civic Centre, Newcastle upon Tyne NE1 8PH (tel 091-2328528, ext 6105), returnable by 24 November 1986.

City of Newcastle upon Tyne

This is an Equal Opportunities Advertisement

Applicants are considered on the basis of their suitability for the post, regardless of ethnic origin, sex, marital status or disability.

Department of Engineering Services and Transportation
Vacancy Number 888

ARCHITECTURAL TECHNICIAN

Scale 3/4 £6,806-£8,172 per annum

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The post carries a casual user car allowance (restricted to 1450cc).

Application forms and Job Descriptions are available from the Personnel Officer, Town Clerk's Department, Municipal Offices, St. James Street, Accrington BB5 1PC. Telephone Accrington 384131 to whom they must be returned not later than 21st November 1986.

BOROUGH OF HYNDBURN

APPOINTMENTS

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